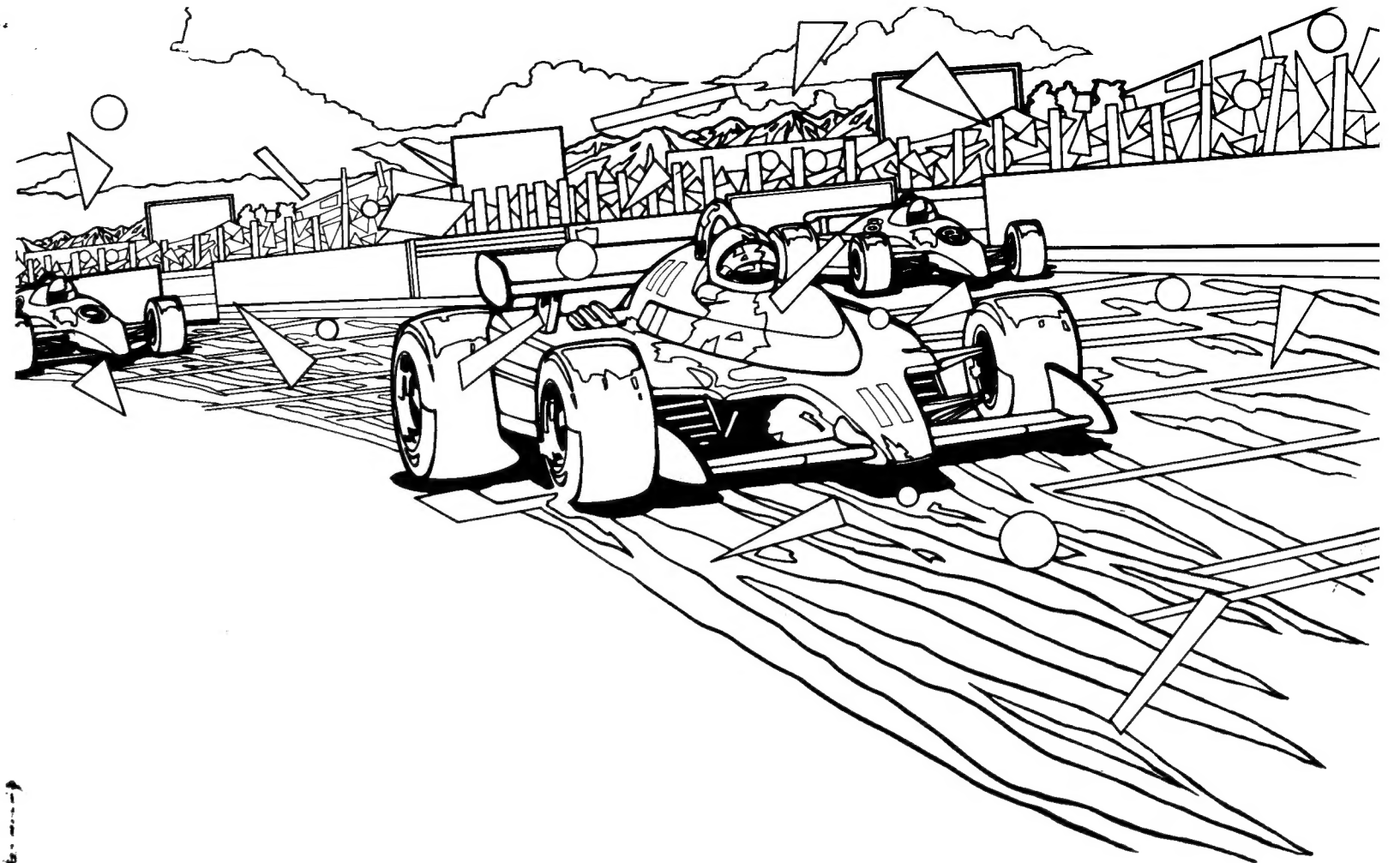


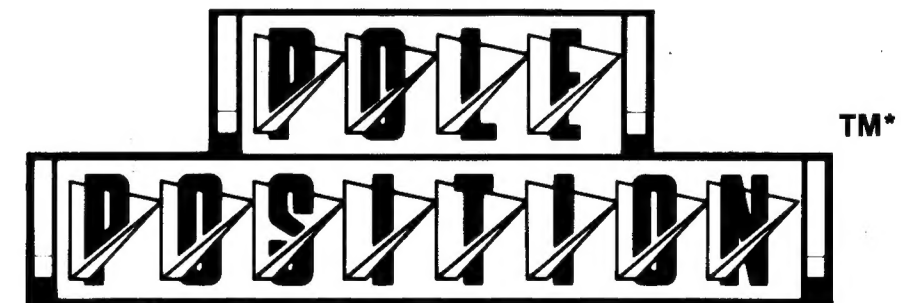
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NOTE
This staple temporarily holds the schematic package together. Remove the staple before using these schematics.



Schematic Package Supplement to

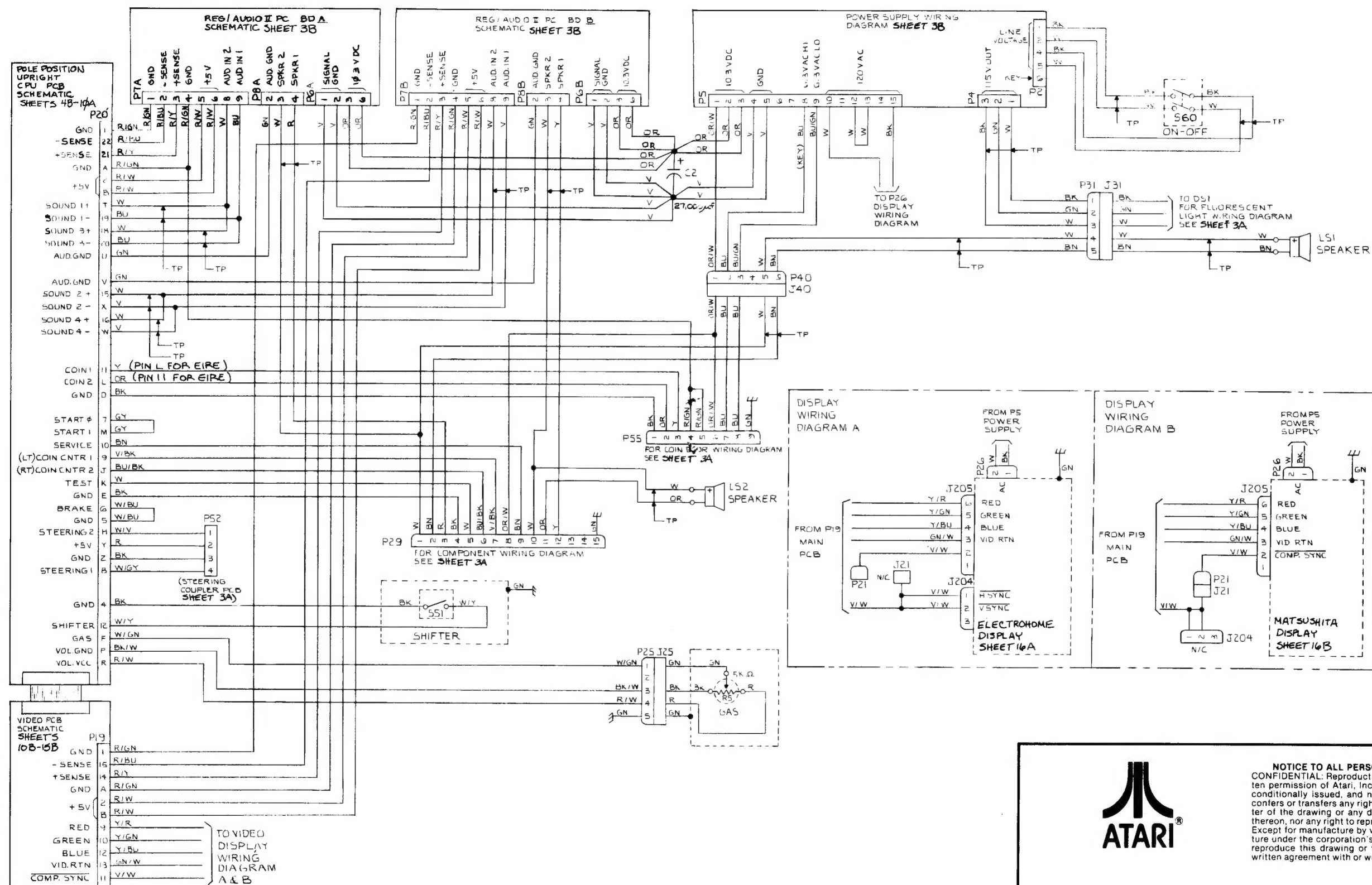


Operation, Maintenance, and Service Manual

*Pole Position is engineered and designed by Namco Ltd. Manufactured under license by Atari, Inc.

2M

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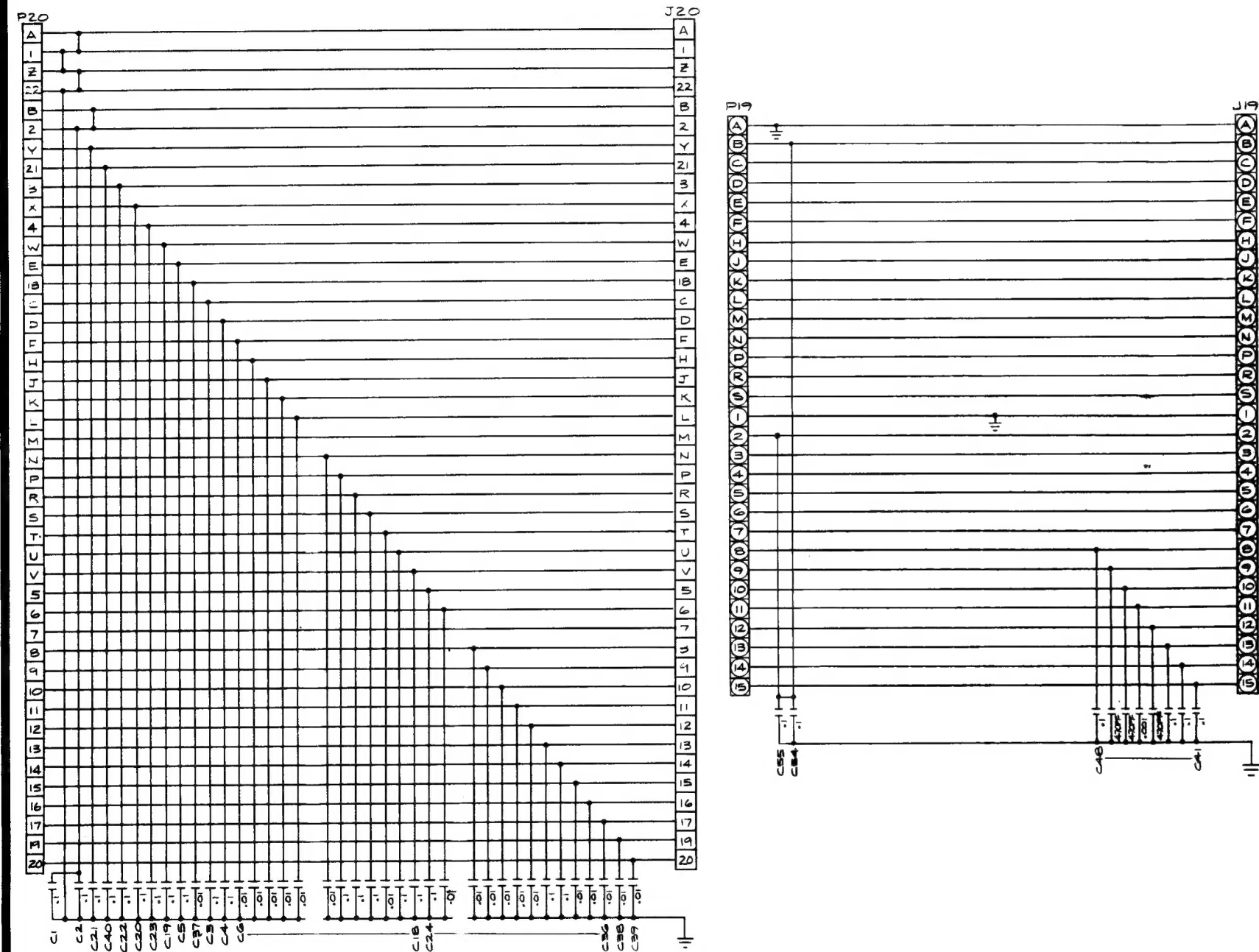
Pole Position Upright Main Wiring Diagram

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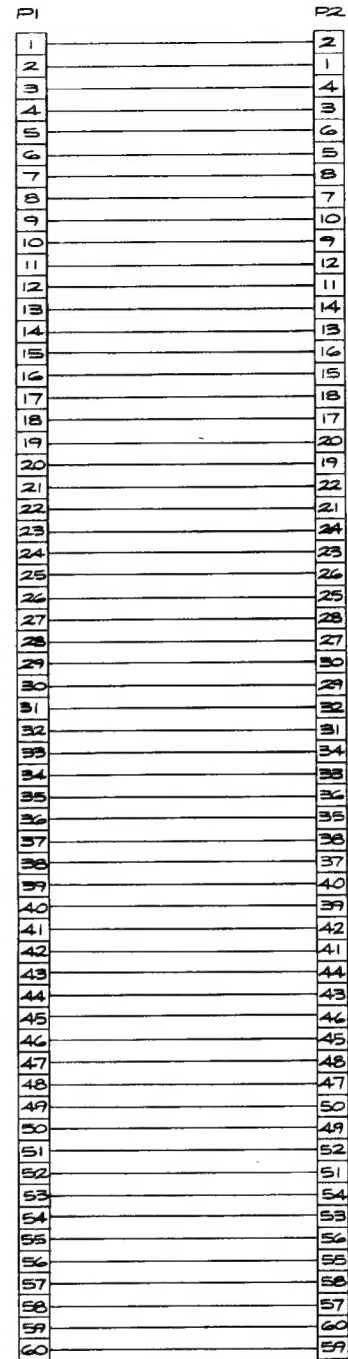
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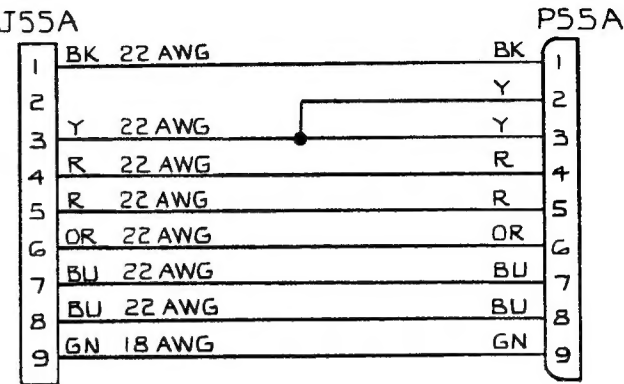
EMI Shield PCB Wiring Diagram



EMI End PCB Wiring Diagram



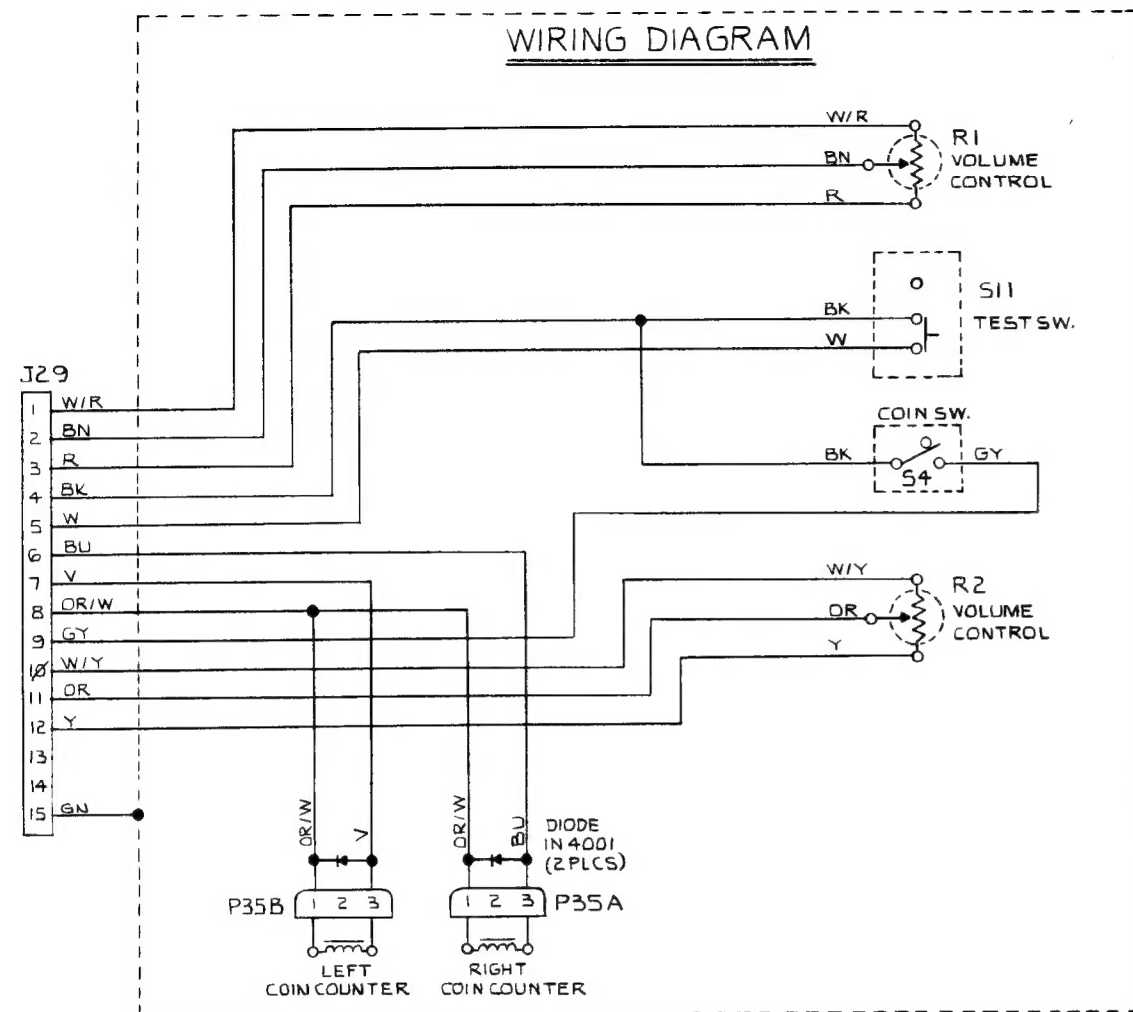
Coin Option Interconnect Wiring Diagram



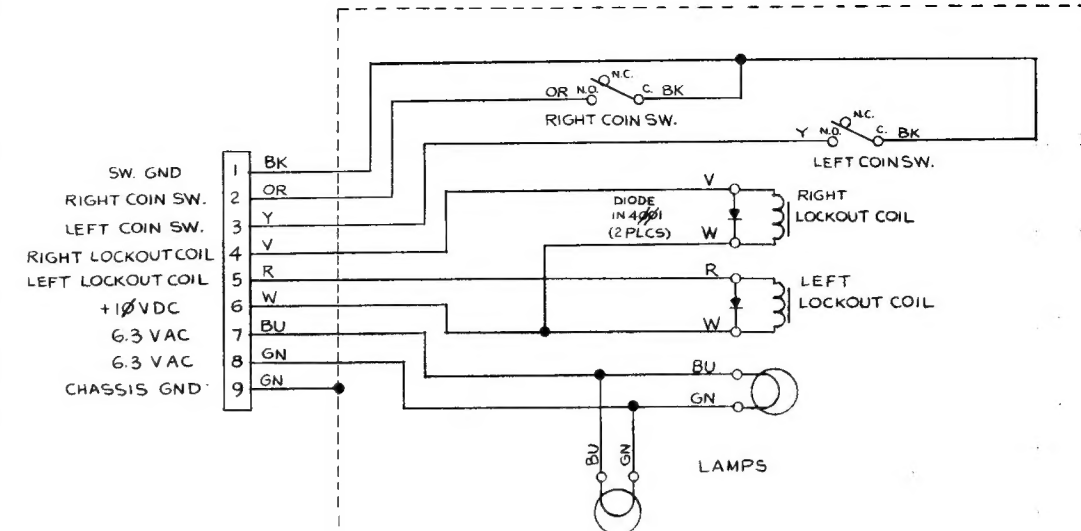
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Pole Position Game Wiring Interfaces

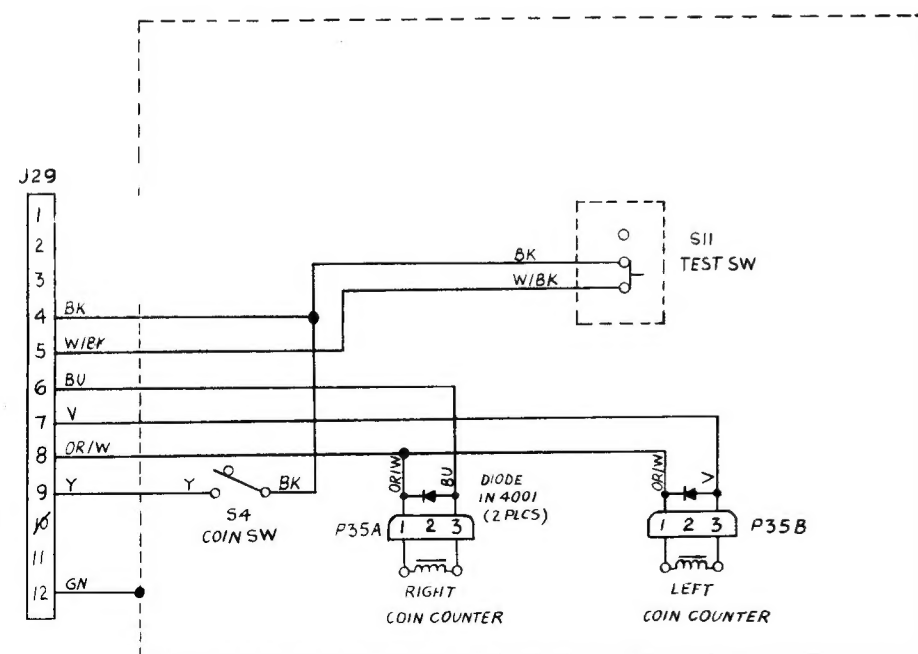
Upright Utility-Panel Wiring Diagram



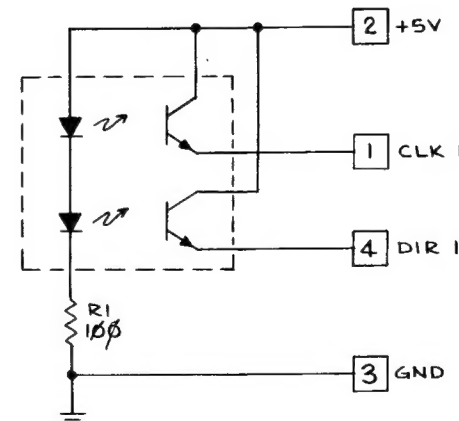
Coin-Door Wiring Diagram



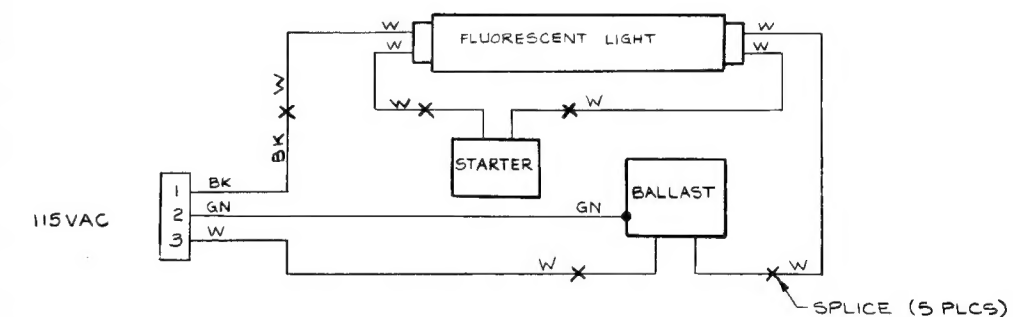
Sit-Down Utility-Panel Wiring Diagram



Steering Coupler PCB Schematic



Upright-Only Fluorescent Light Wiring Diagram

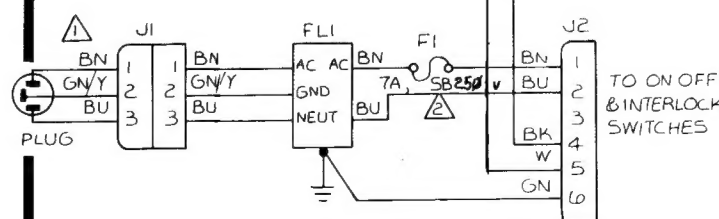
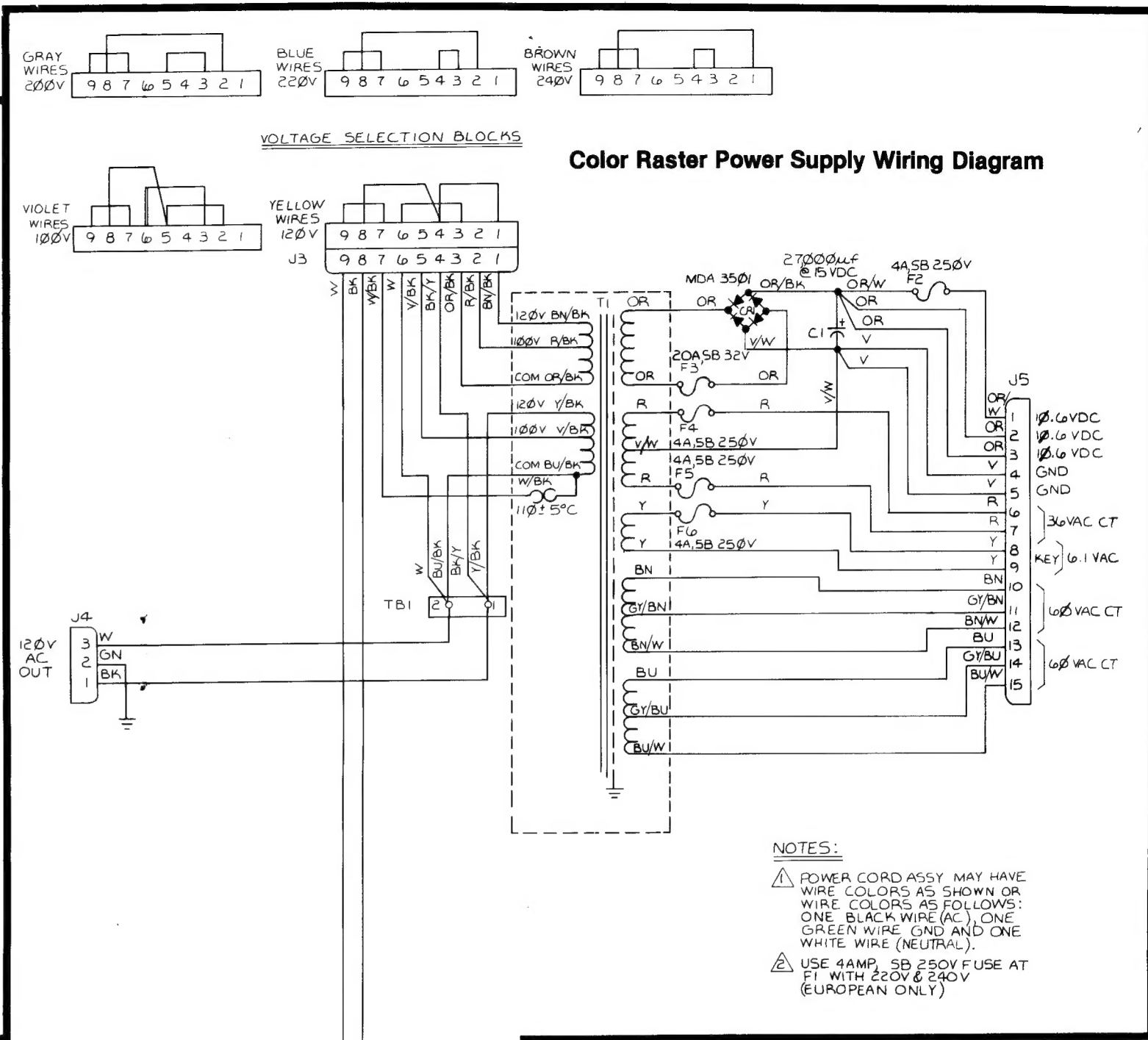
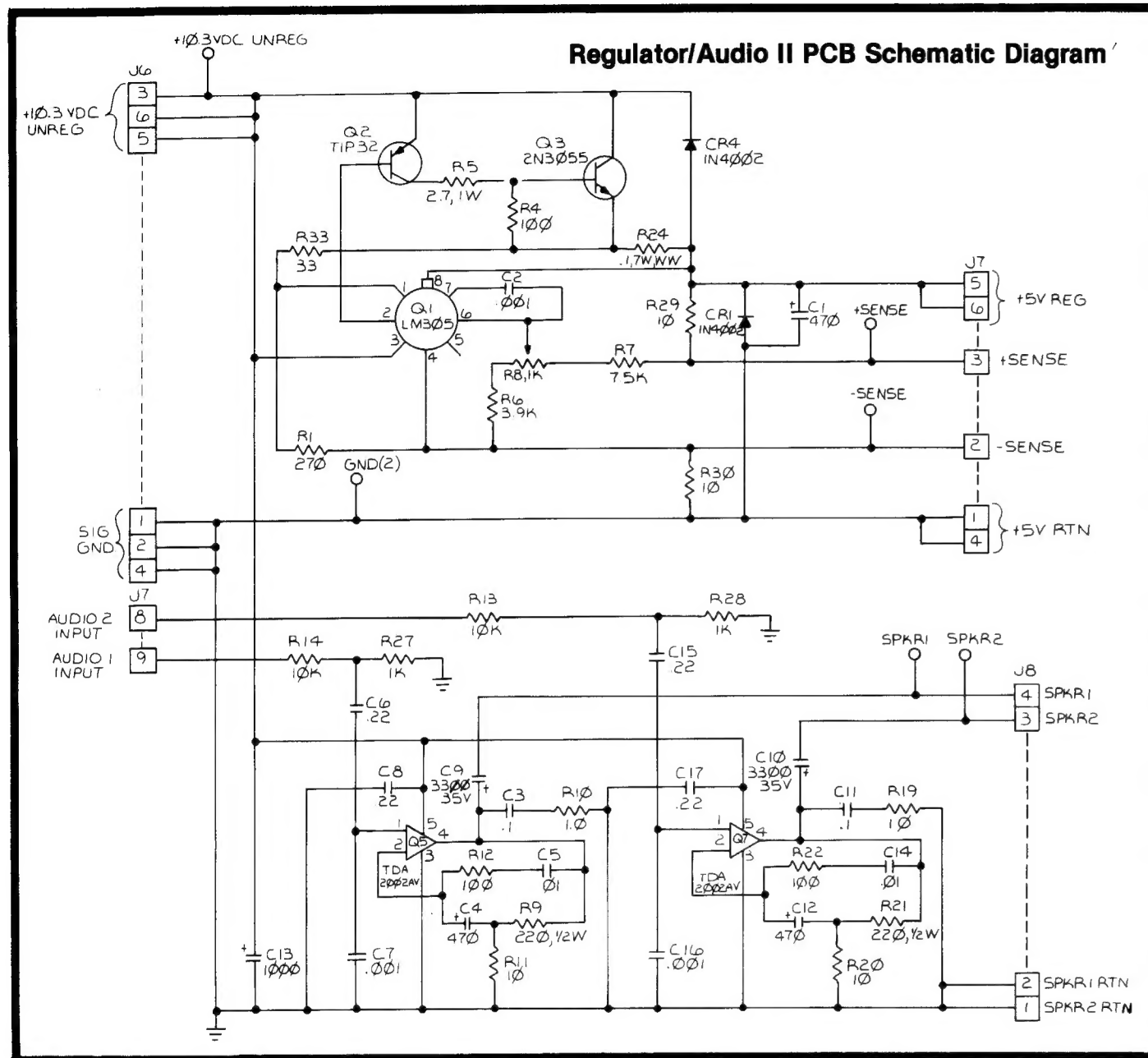


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Pole Position Game Wiring Interfaces

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Pole Position Reg./Audio II PCB and Power Supply Diagrams

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MEMORY MAP

CPU 1 AND 2

HEXADECIMAL ADDRESS	READ/ WRITE	FUNCTION
0000-37FFF 4000-7FFF	R R	Program Memory Program Memory
8000-8FFF (8700-87FF) (8F00-8FFF)	R/W	Motion Object Memory Vertical and Horizontal Position Character, Color, Vertical Size, Horizontal Size
9000-97FF (9000-93FF) (9700-97FF)	R/W	Road Memory Character Horizontal Scroll
9800-9FFF A000-AFFF)	R/W R/W	Alphanumeric Memory View Character Memory
C000 C100	W W	View Horizontal Position Road Vertical Position

CPU 3

HEXADECIMAL ADDRESS	READ/ WRITE	FUNCTION
0000-1FFF 2000-2FFF 3000-37FF	R R R/W	Program Memory Program Memory Battery Back-Up RAM
4000-43FF (4380-43FF)	R/W	Motion Object Memory Vertical and Horizontal Position
4400-47FF (4780-47FF)	R/W	Motion Object Memory Character, Color, Vertical Size, Horizontal Size
4800-48FF (4800-49FF) (4B80-4BFF)	R/W	Road Memory Character Horizontal Scroll
4C00-57FF (4C00-4FFF) (5000-53FF)	R/W	Alphanumeric Memory Alphanumeric View Character
8000-83FF (83C0-83FF)	R/W	Sound Memory Sound
9000 A000	R/W R/W	4-Bit CPU Controller Input/Output
A000	W R	IRQ Enable (1 = enable, 0 = disable) Bit 0: Not Used Bit 1: 128 V Bit 2: Power-Line Sense Bit 3: ADC End Flag
A001 A002 A003 A004 A005 A006 S007	W W W W W W W	4-Bit CPU Enable Sound Enable ADC Input Select CPU 1 Enable CPU 2 Enable Start Switch Color Enable
A100 A200 A300	W W W	Watchdog Reset Car Sound (Lower Nybble) Car Sound (Upper Nybble)

Schematic Reference Designators and Symbols

Logic symbols depict the logic function performed by that particular device and may differ from the manufacturer's data.

REFERENCE DESIGNATORS:

C	Capacitor
CR	Diode, signal or rectifier
F	Fuse
J	Connector
L	Inductor, fixed or variable
LS	Speaker
P	Connector
Q	Transistor or silicon-controlled rectifier
R	Resistor, fixed or variable
S	Switch
T	Transformer
TP	Twisted wire pair
VR	Voltage regulator
Y	Crystal

WIRE COLORS:

R	Red
GN	Green
Y	Yellow
W	White
BU	Blue
BN	Brown
BK	Black
OR	Orange
V	Violet
GY	Gray

Electrical components shown on the schematic diagrams are in the following units unless otherwise noted:

Capacitors = microfarads (μ f)
Resistors = ohms (Ω)
Inductors = microhenrys (μ h)

SYMBOLS:



Ground



Test Point



PCB edge connector pad



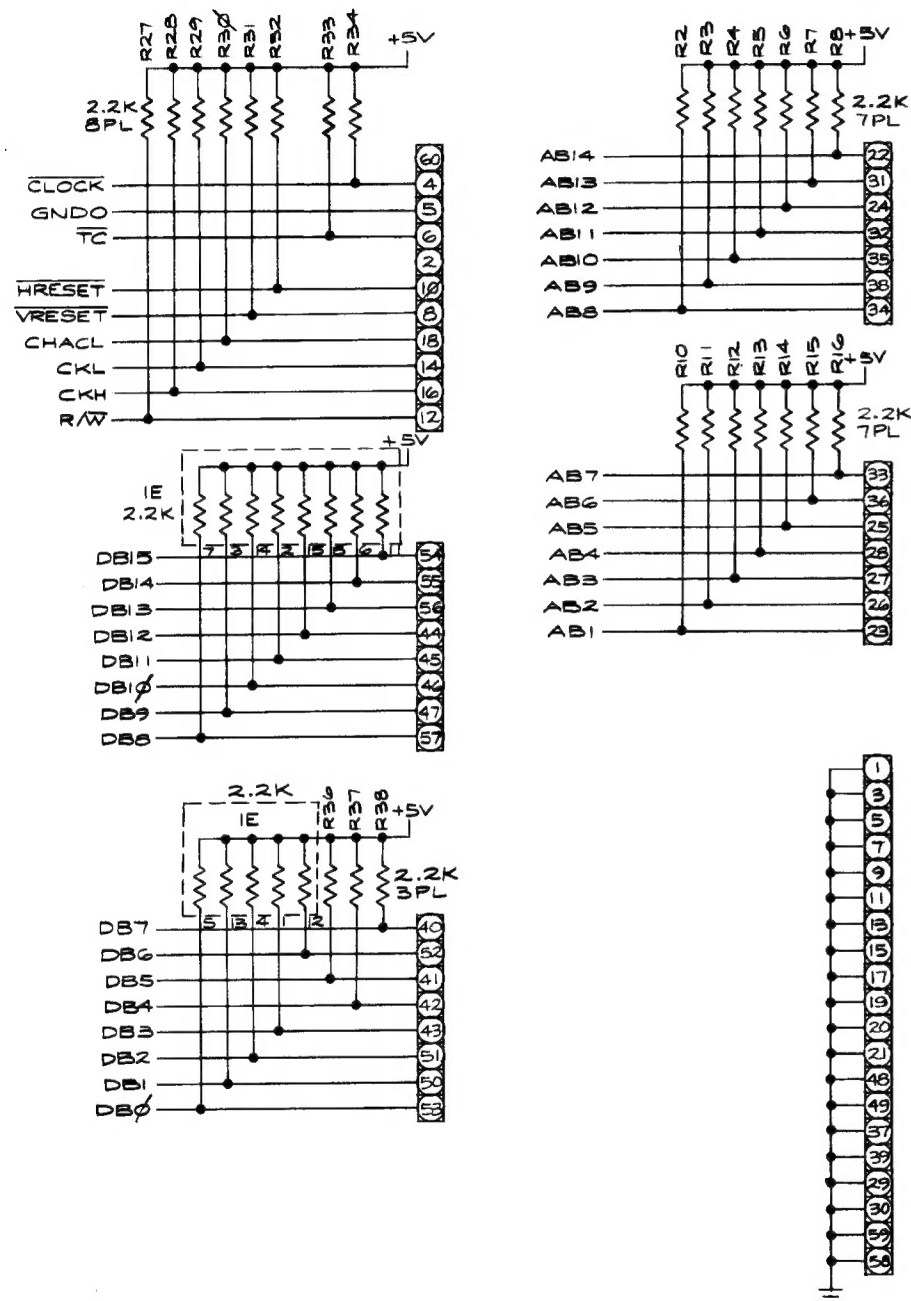
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Pole Position Memory Map and Schematic Notes

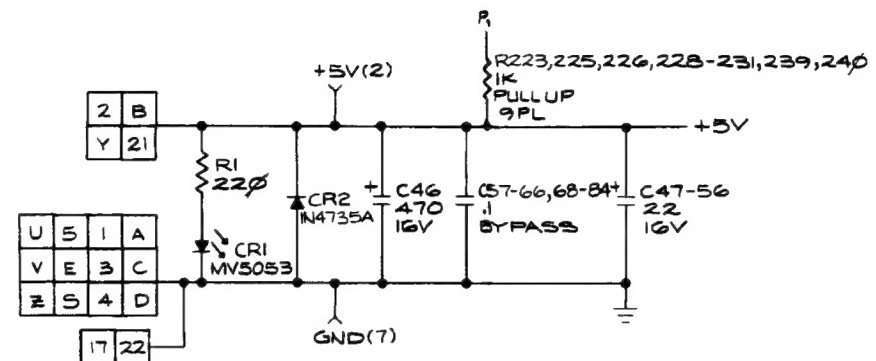
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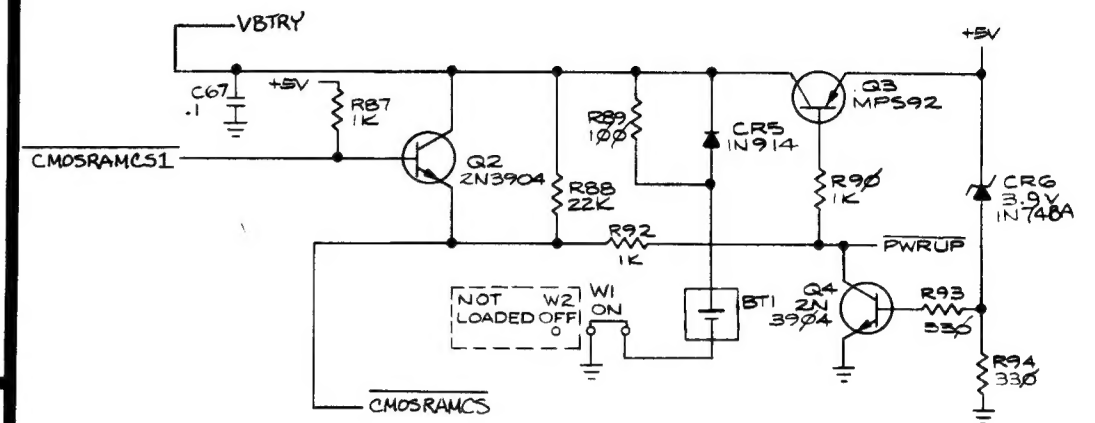
CPU PCB Power Input



CPU PCB Power Input



RAM Battery Back-Up Power



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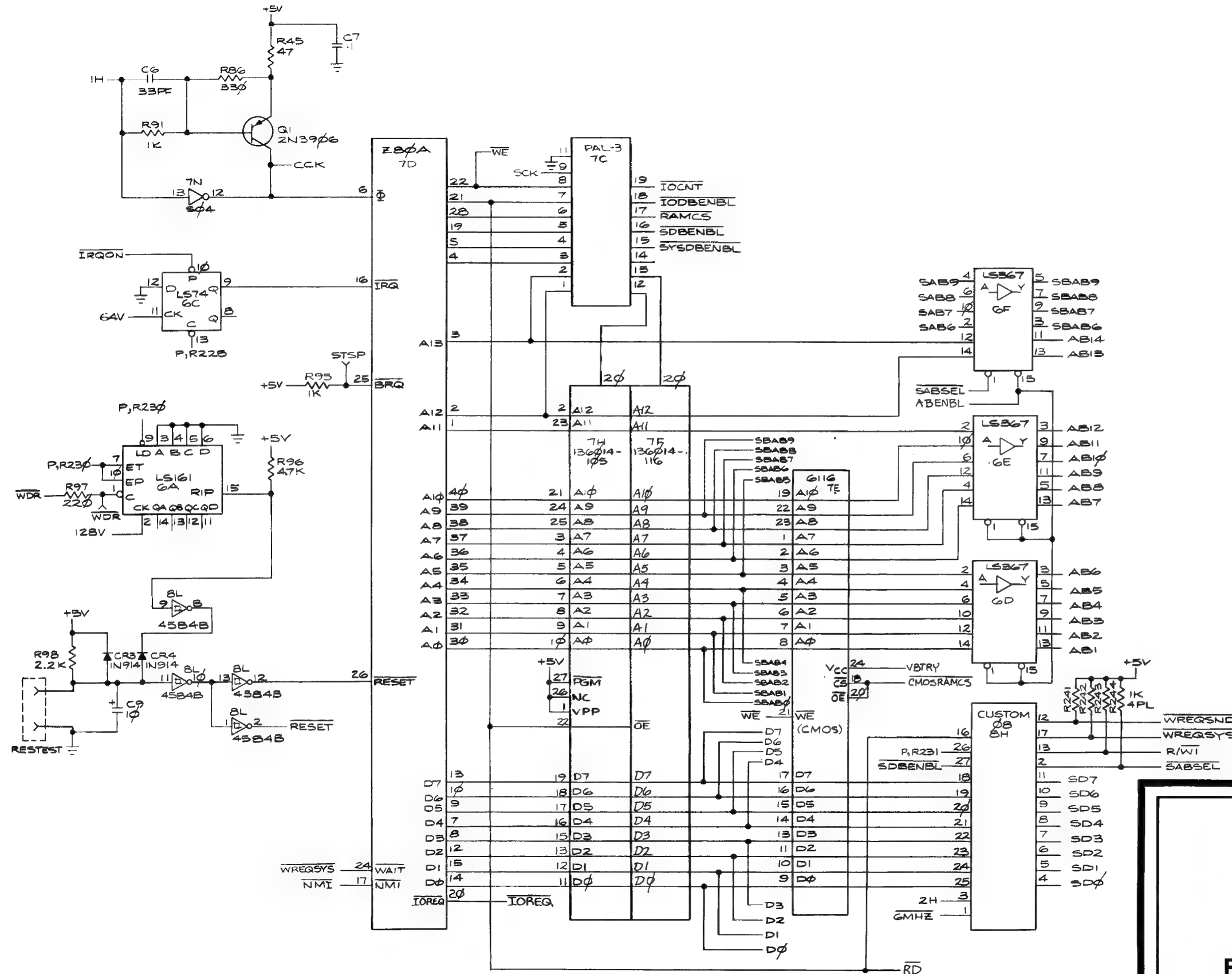
Pole Position CPU PCB Schematic Diagram

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Sound Microprocessor



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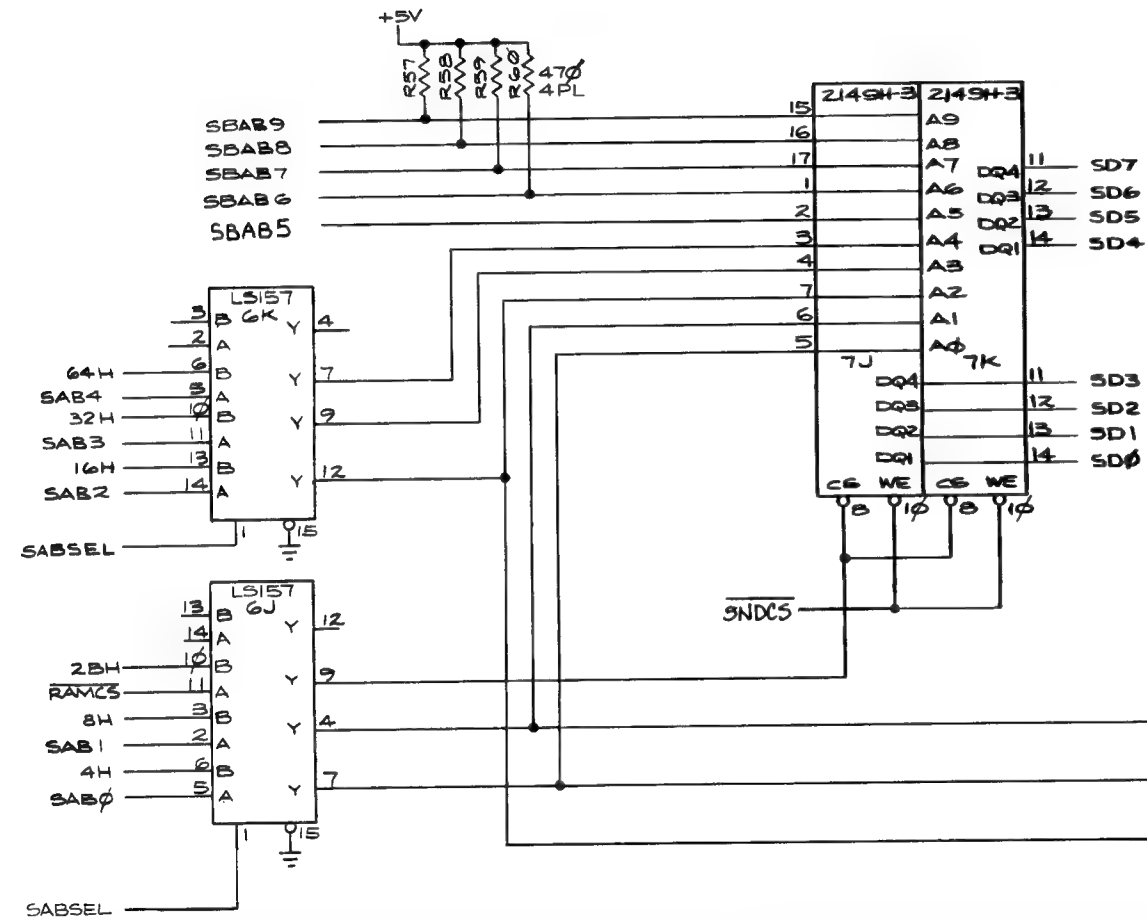
Pole Position CPU PCB Schematic Diagram

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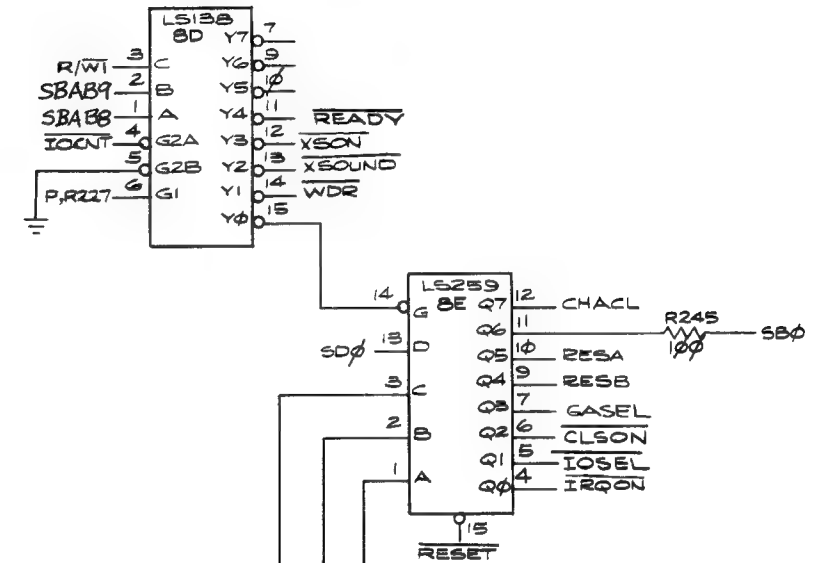
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Sound Memory



Sound and I/O Address Decoders



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Pole Position CPU PCB Schematic Diagram

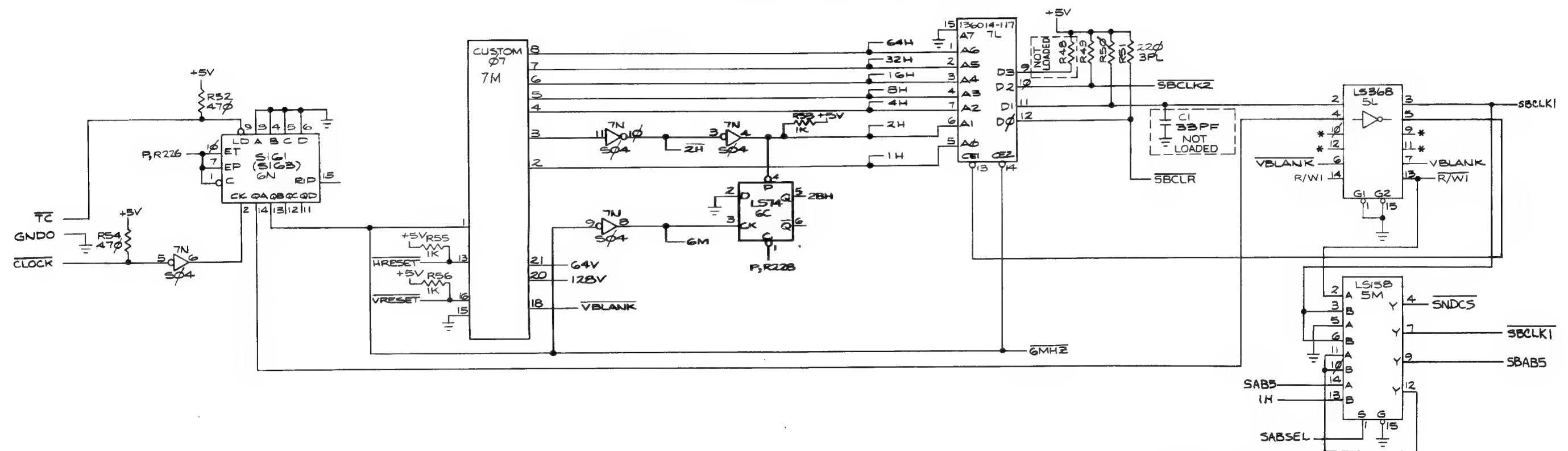
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CPU PCB Sync Chain



* USED IN SHEET 5A + 5B



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Pole Position CPU PCB Schematic Diagram

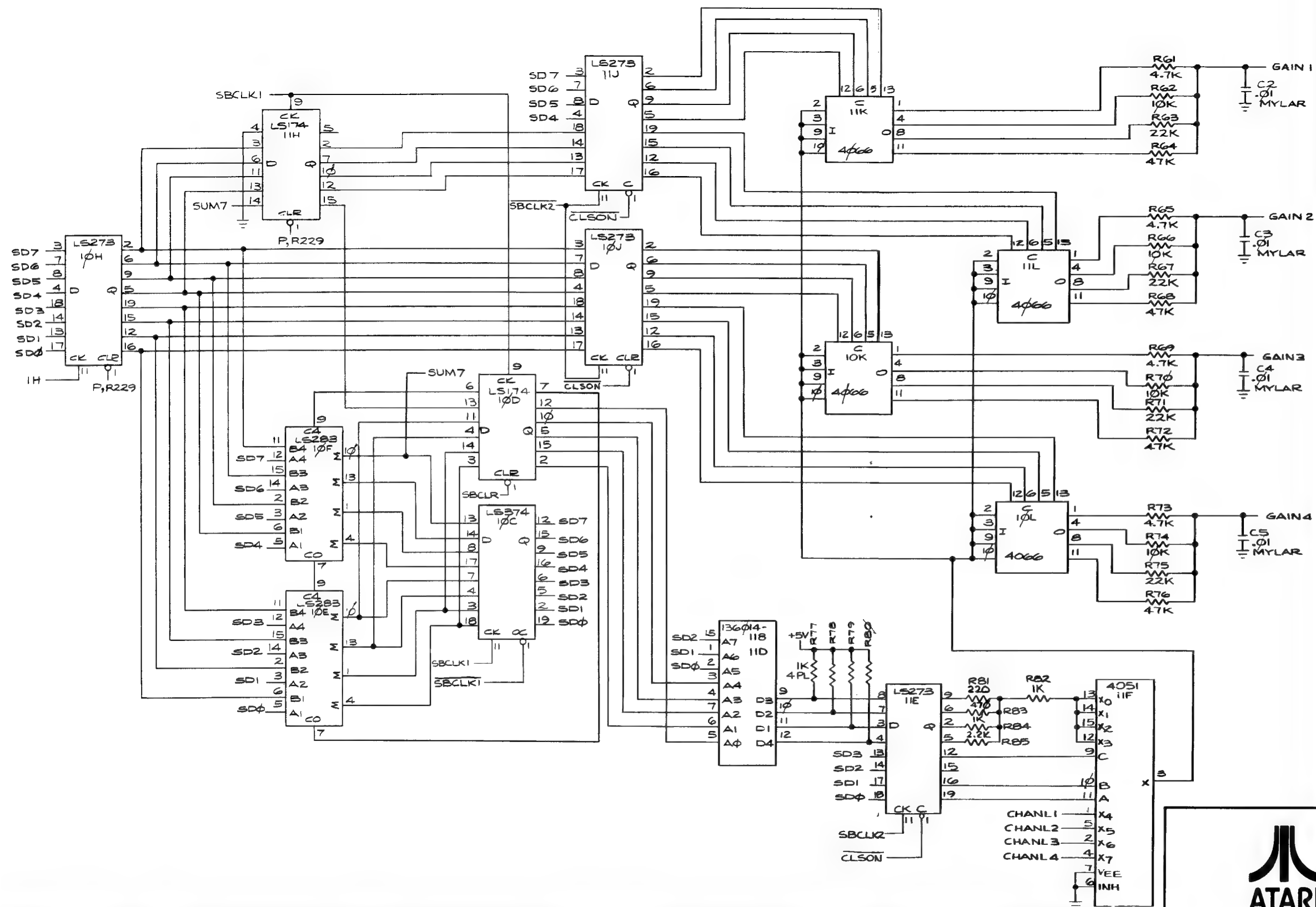
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Sound Buffers and Multiplexer



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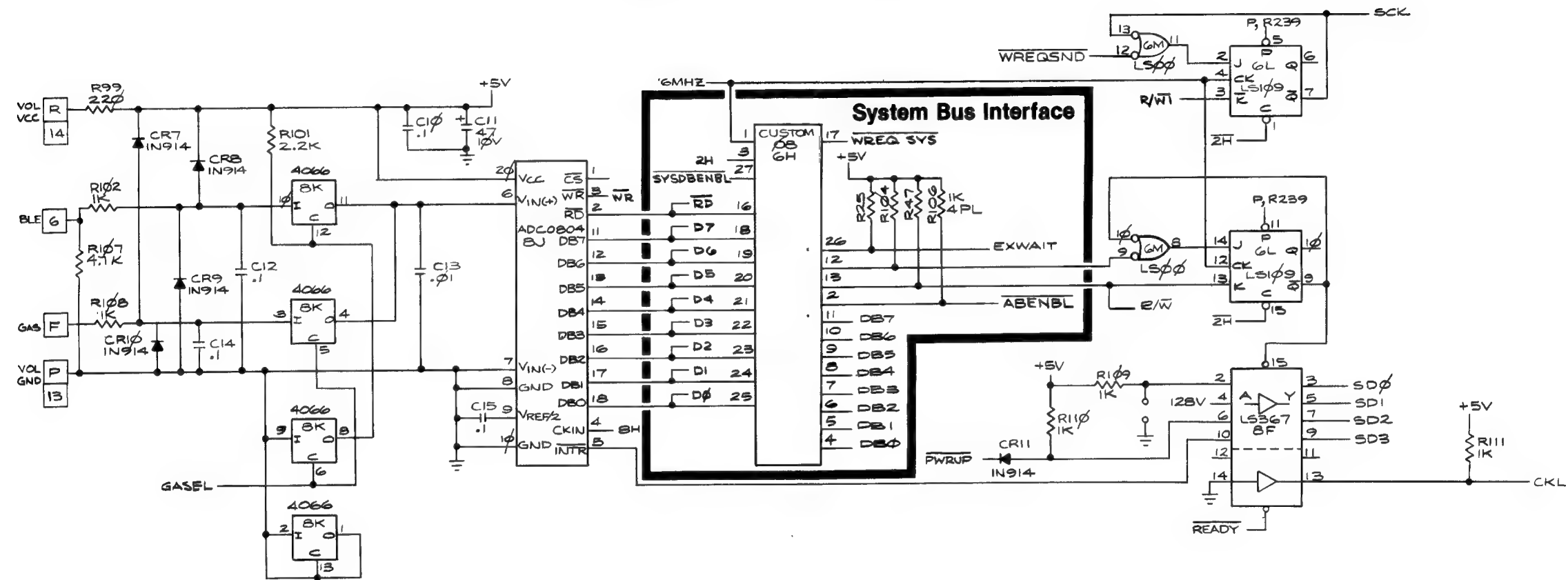
Pole Position CPU PCB Schematic Diagram

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Brake and Gas Pedal Input



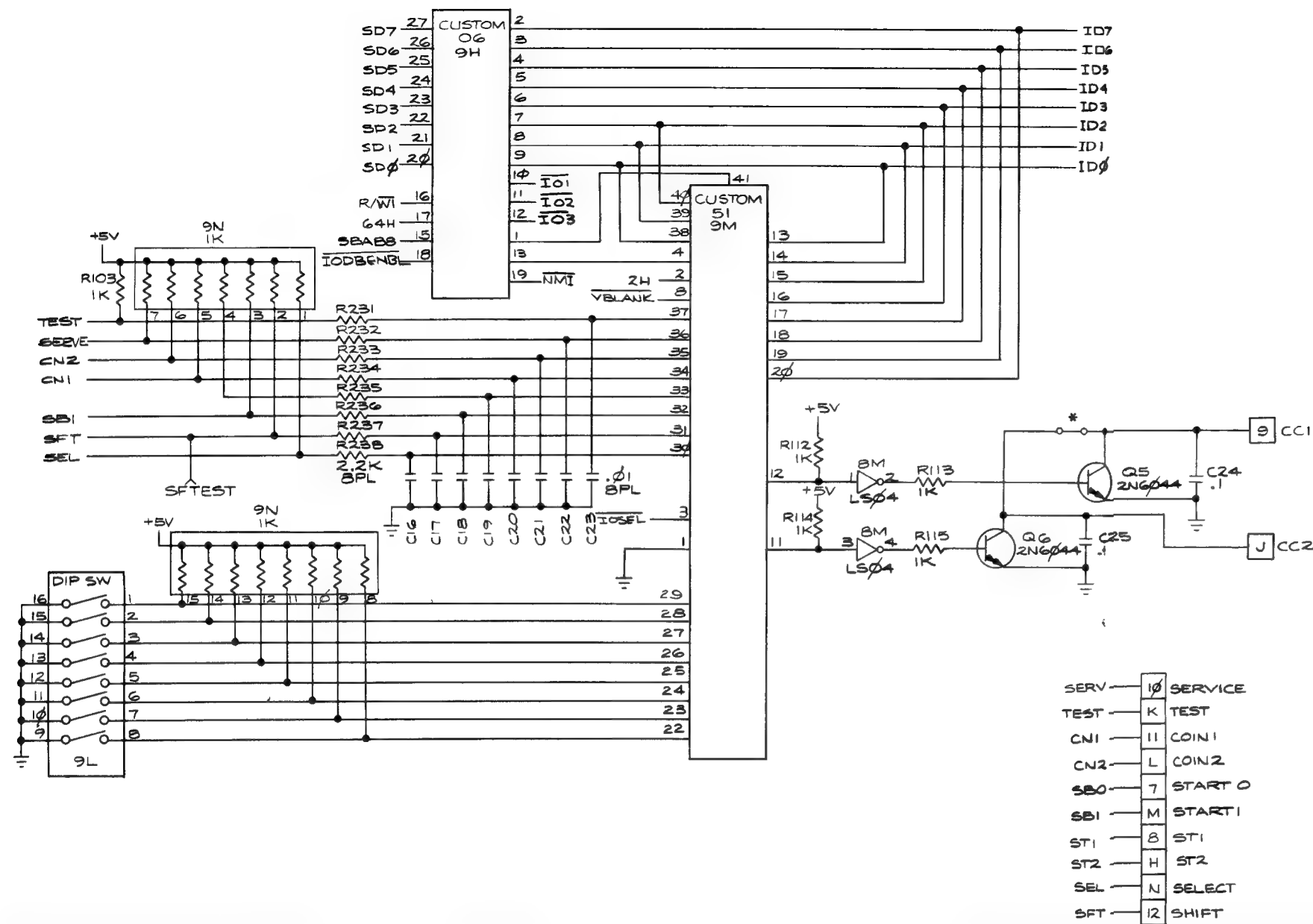
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Pole Position CPU PCB Schematic Diagram

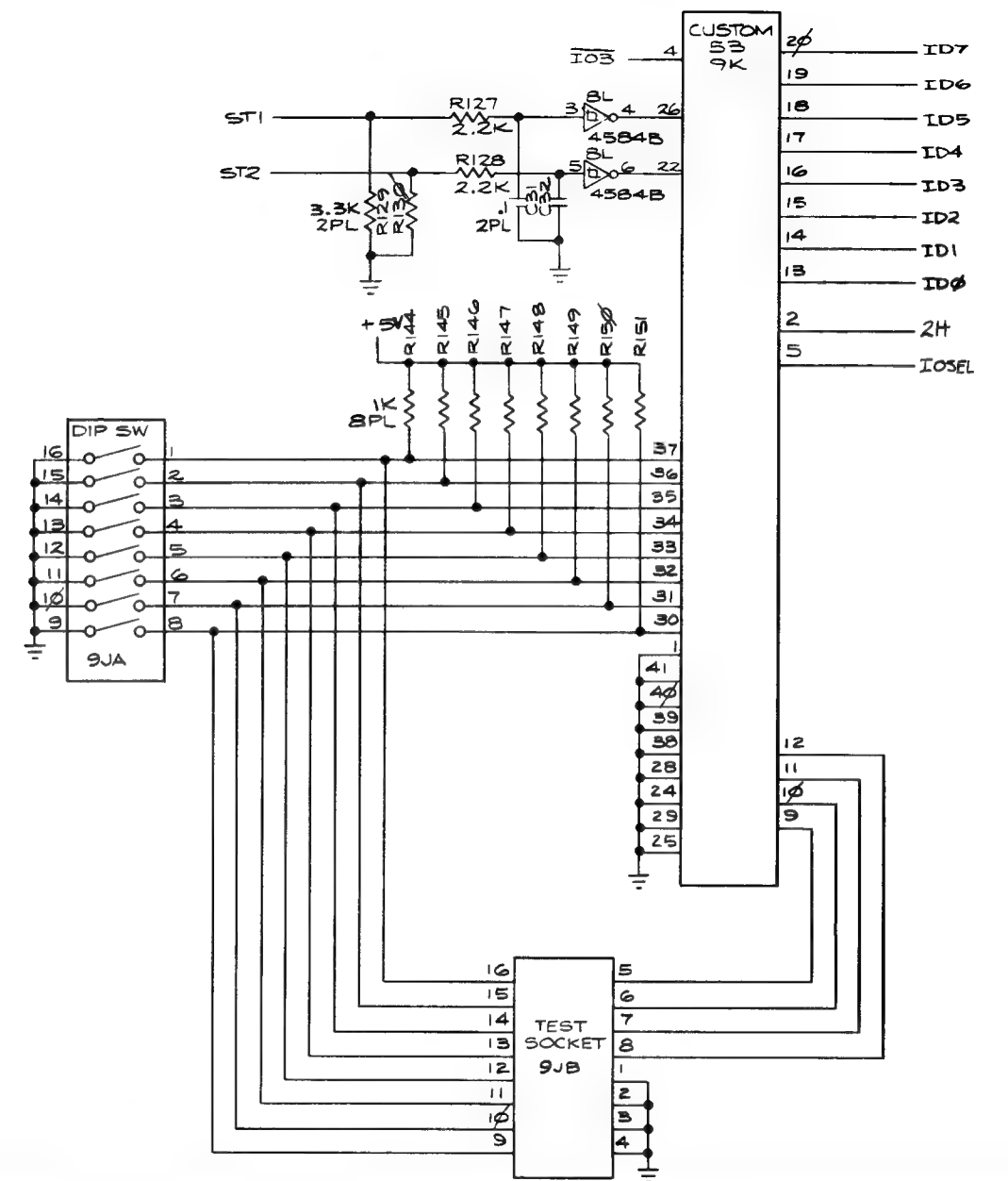
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Option Switch Input and I/O Interface



* PAD MUST BE SPLIT ON IRISH-BUILT CABINETS



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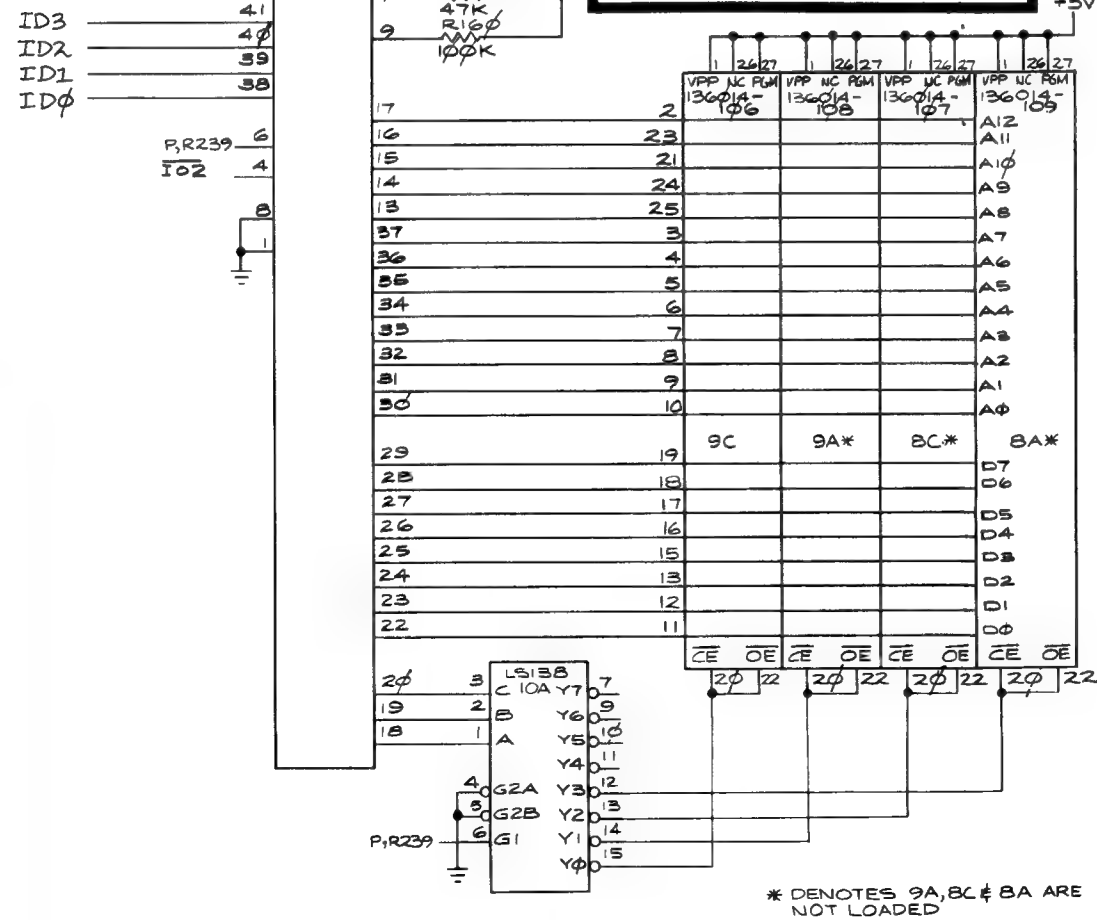
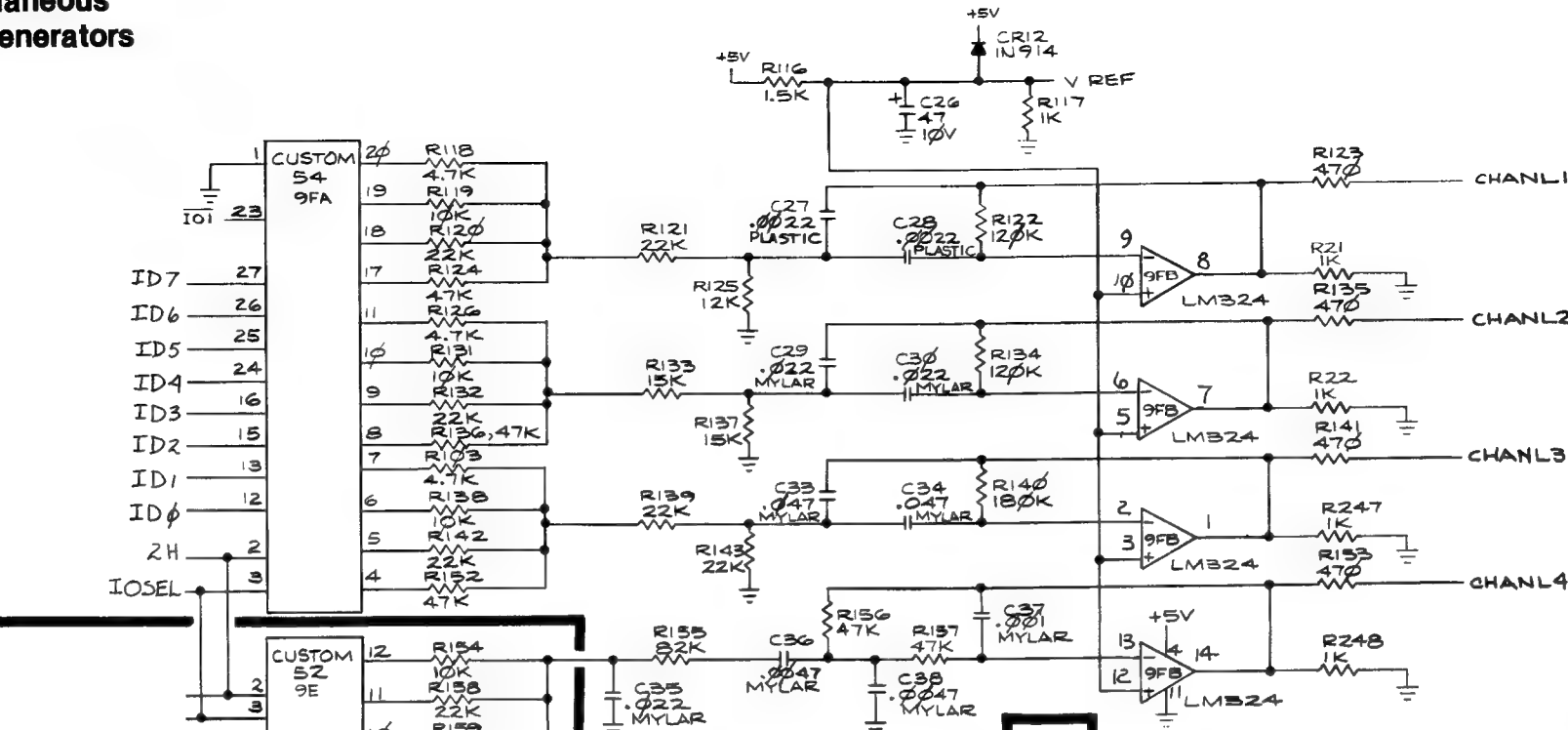
Pole Position CPU PCB Schematic Diagram

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Miscellaneous Sound Generators



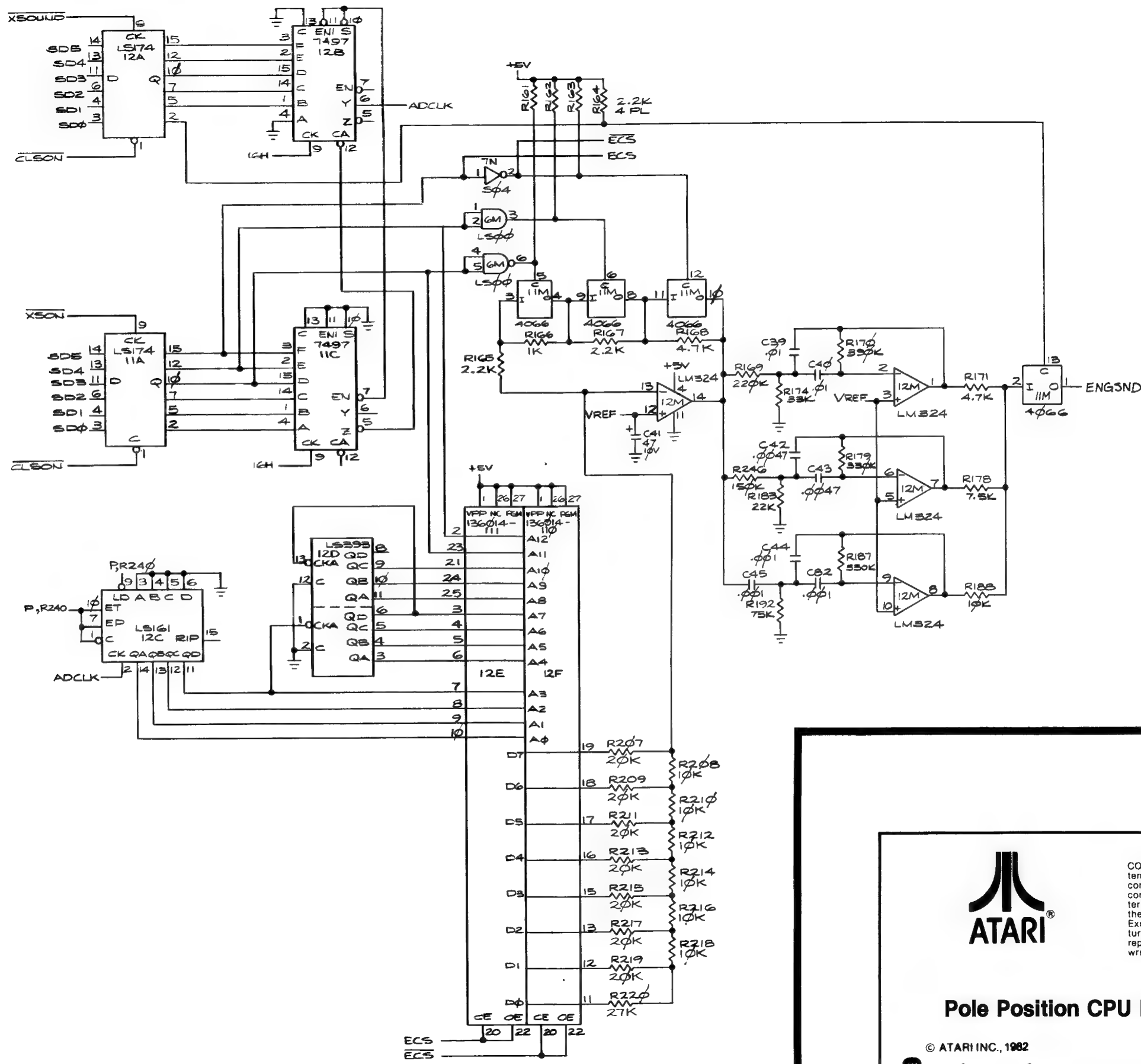
Speech Processor and Memory



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Pole Position CPU PCB Schematic Diagram

Engine Sound Generator

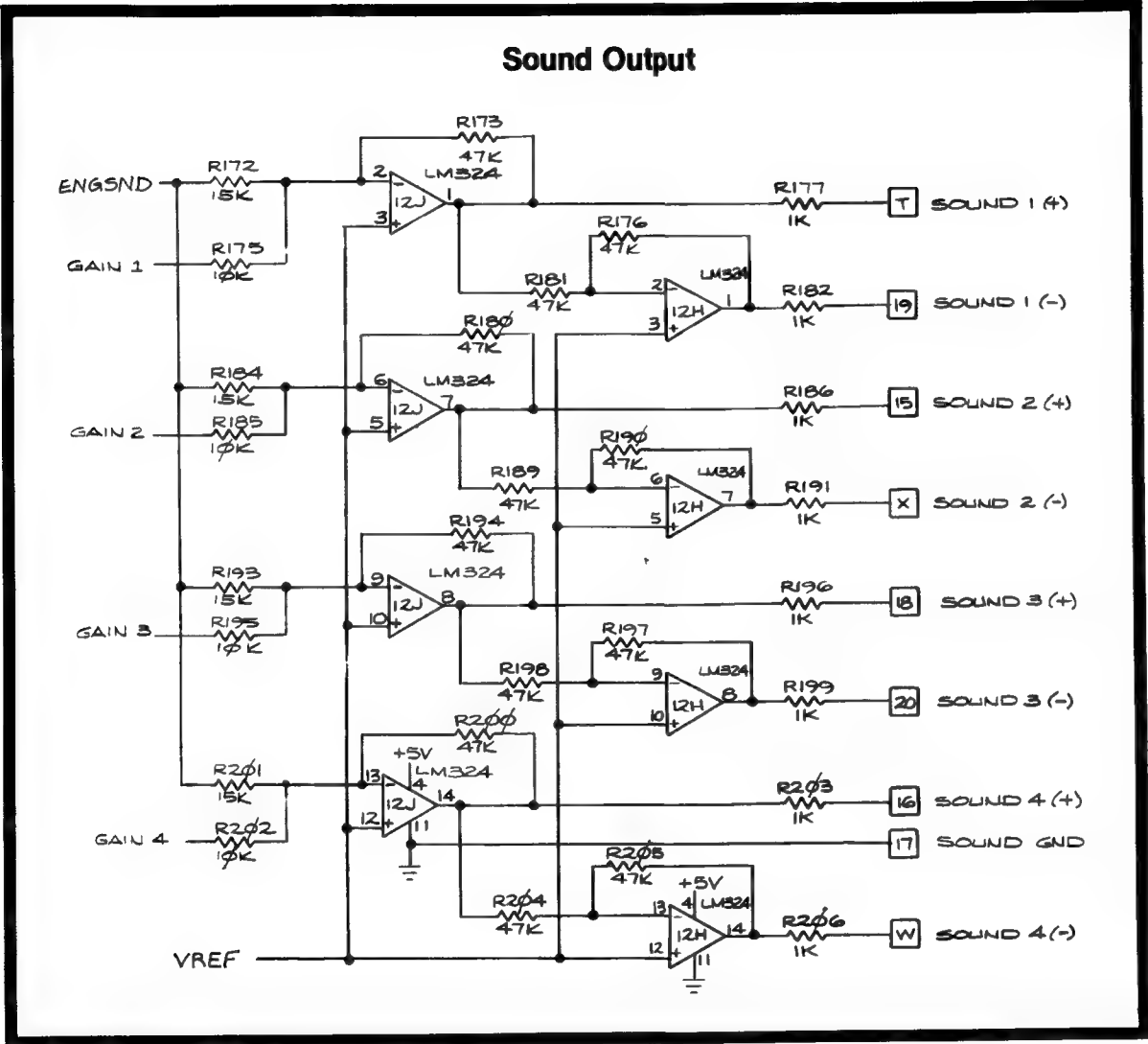


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Pole Position CPU PCB Schematic Diagram

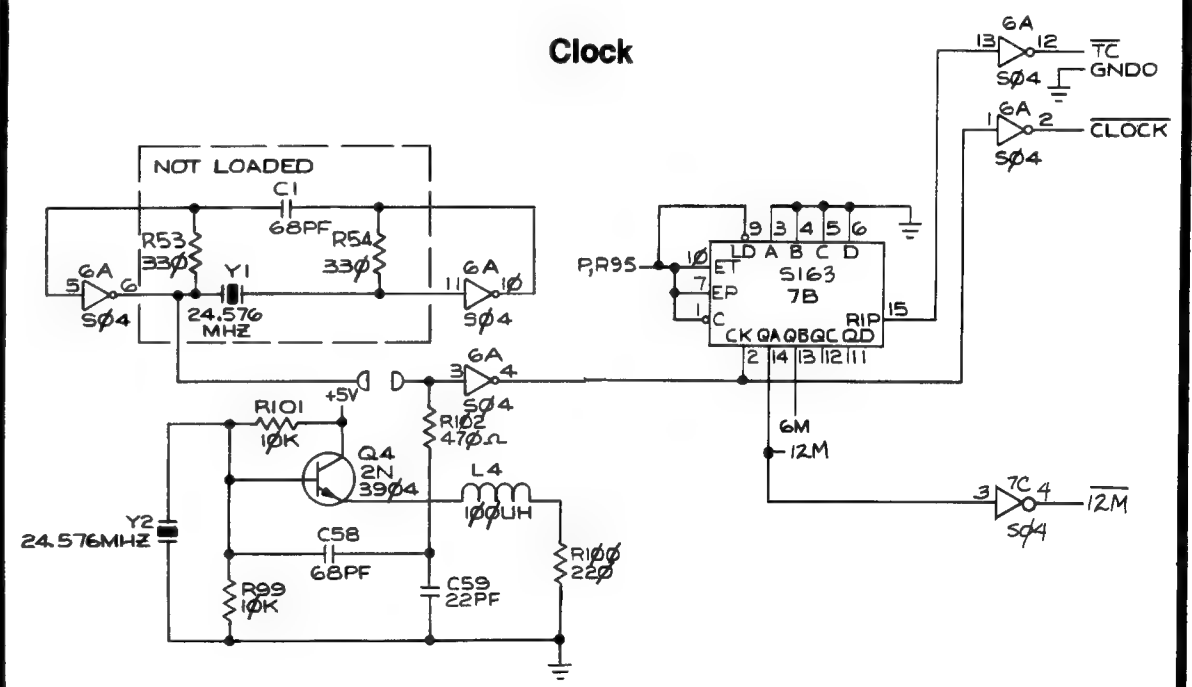
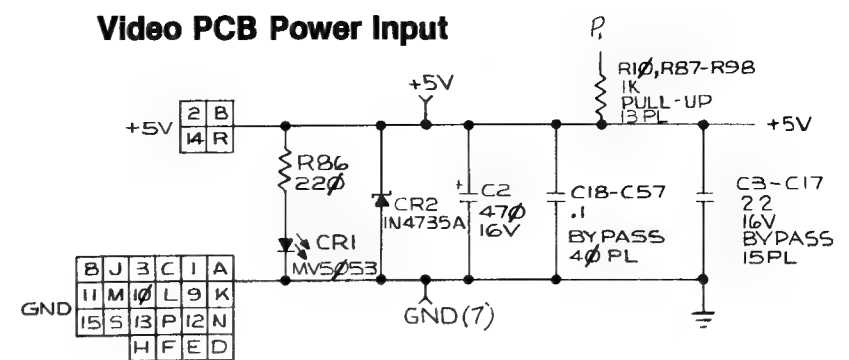
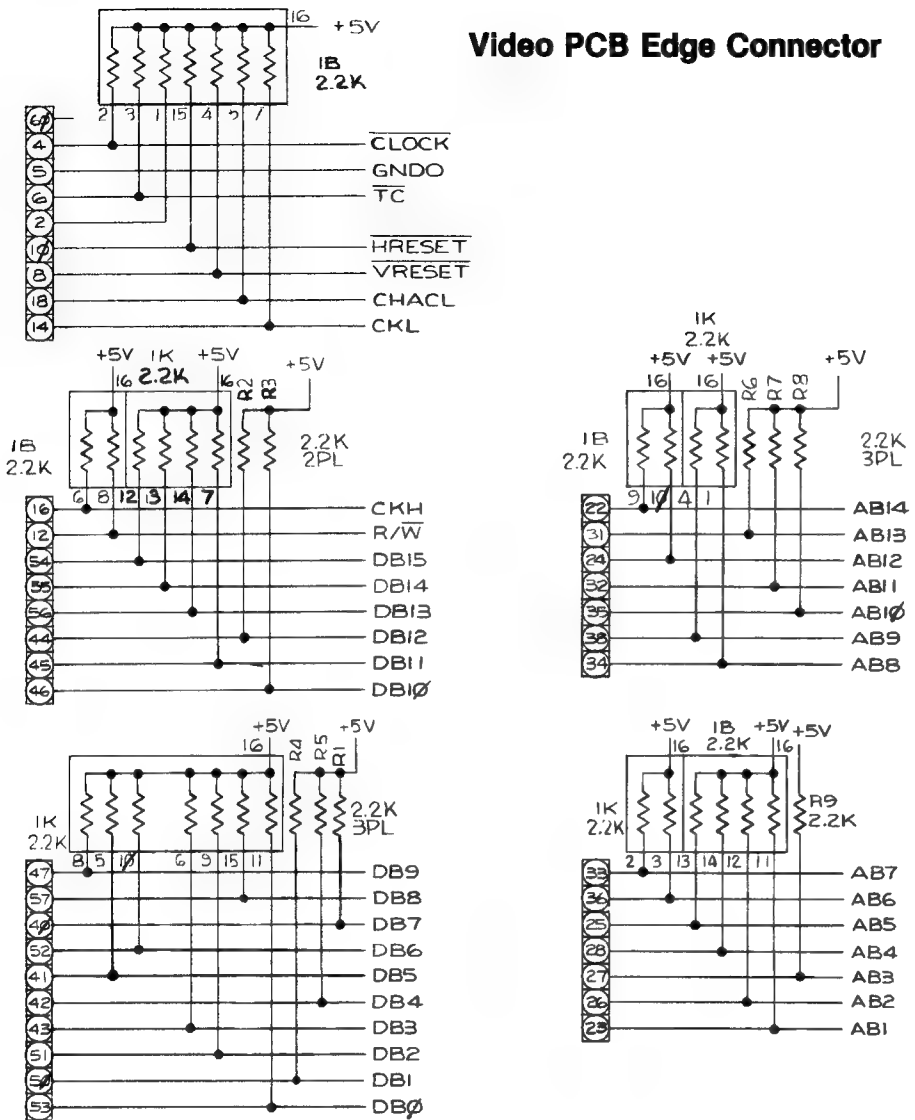
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Pole Position CPU PCB Schematic Diagram



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Pole Position Video PCB Schematic Diagram

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SP-218 Sheet 11A
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The diagram illustrates the pin configuration and internal circuitry of a 136-pin DIP package. The top section shows the pin numbers and their corresponding voltages:

Pin	Voltage
15	128V
1	64V
2	32V
3	16V
4	8V
7	4V
6	2V
5	1V

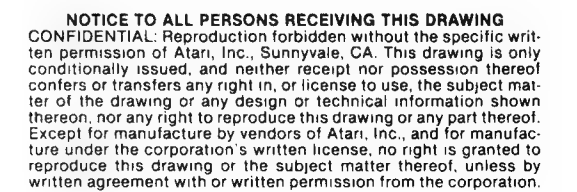
The bottom section shows the pin numbers and their corresponding signals:

Pin	Signal
13	CS
14	CS
15	CS
16	CS
17	CS
18	CS
19	CS
20	CS
21	CS
22	CS
23	CS
24	CS
25	CS
26	CS
27	CS
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136	CS

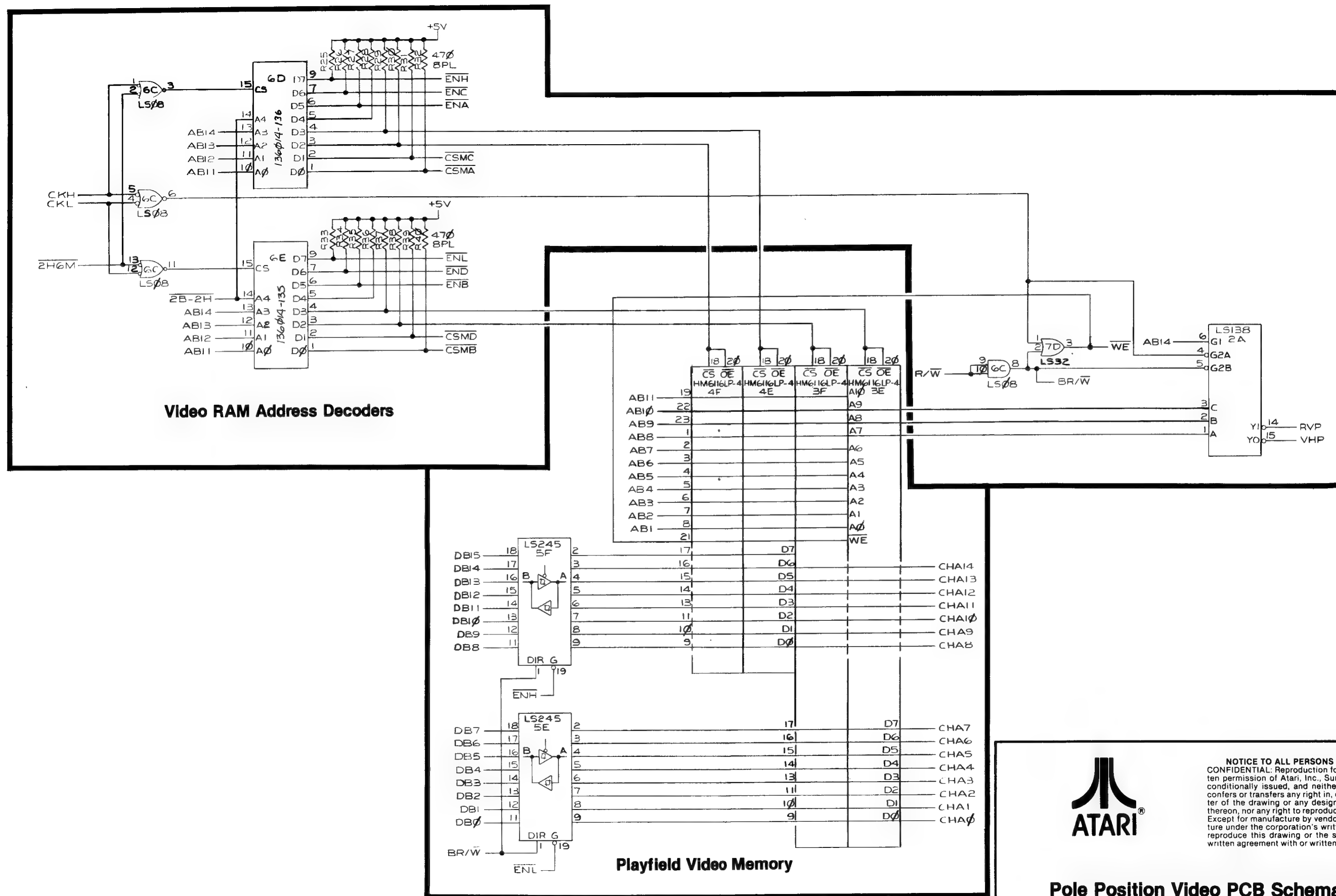
The schematic shows the internal circuitry, including resistors (R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24) and logic gates (MVP1, MVP2, MVP3, MVP4, MVP5, MVP6, MVP7, MVP8, MVP9, MVP10). The resistors are connected to the pins and the logic gates. The logic gates are connected to the pins and the resistors. The resistors are connected to the pins and the logic gates. The logic gates are connected to the pins and the resistors.

	CLOCK	
VSH8	5	23 AB12
VSH7	6	22 AB11
VSH6	7	21 AB10
VSH5	8	20 AB9
VSH4	9	19 AB8
VSH3	10	18 AB7
		17 AB6
		16 AB5
VRESET	4	15 AB4
HRESET	3	14 AB3
HSYNC	2	13 AB2
B-2H	1	12 AB1

*MANUFACTURER MUST BE TEXAS INSTRUMENTS



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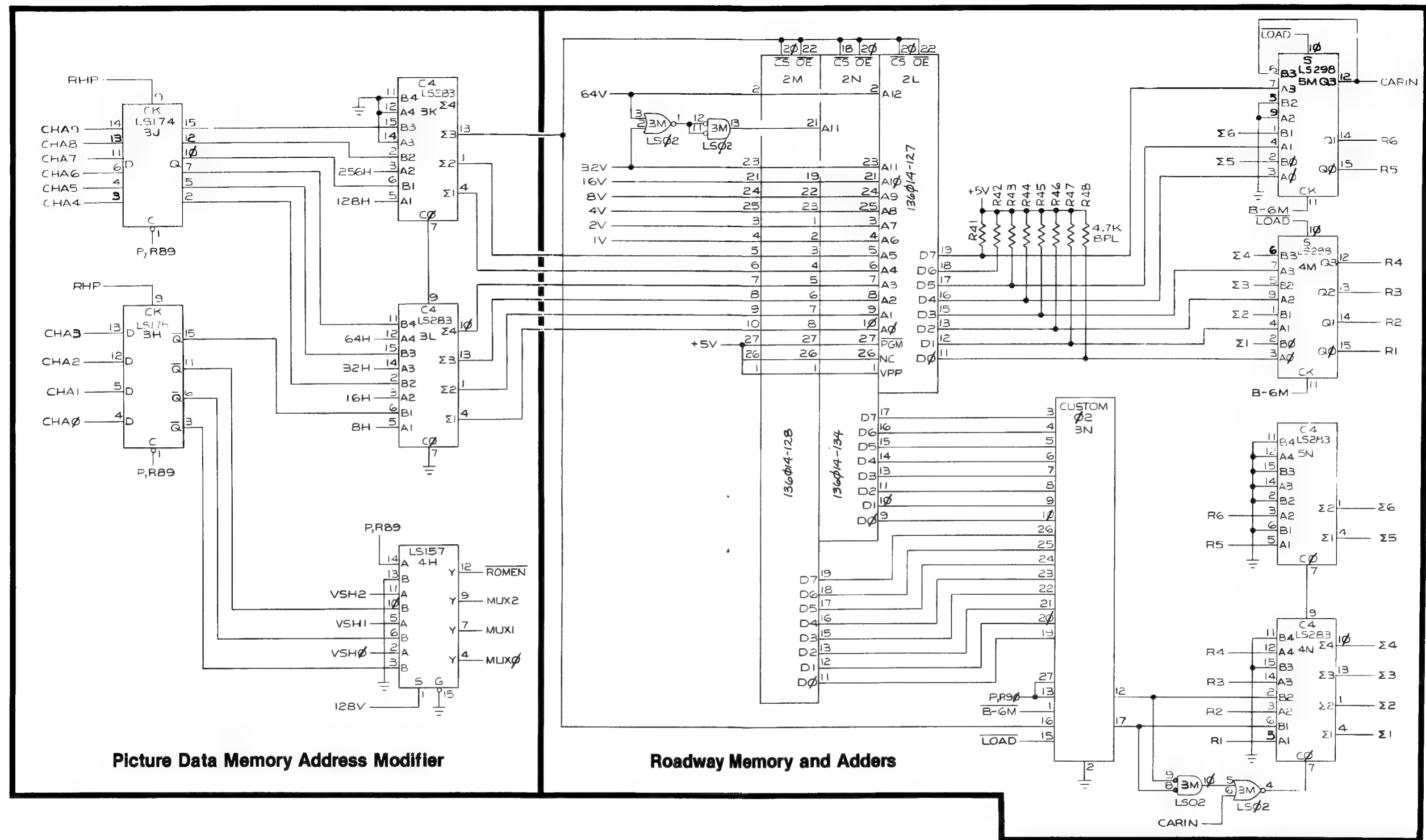


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Pole Position Video PCB Schematic Diagram

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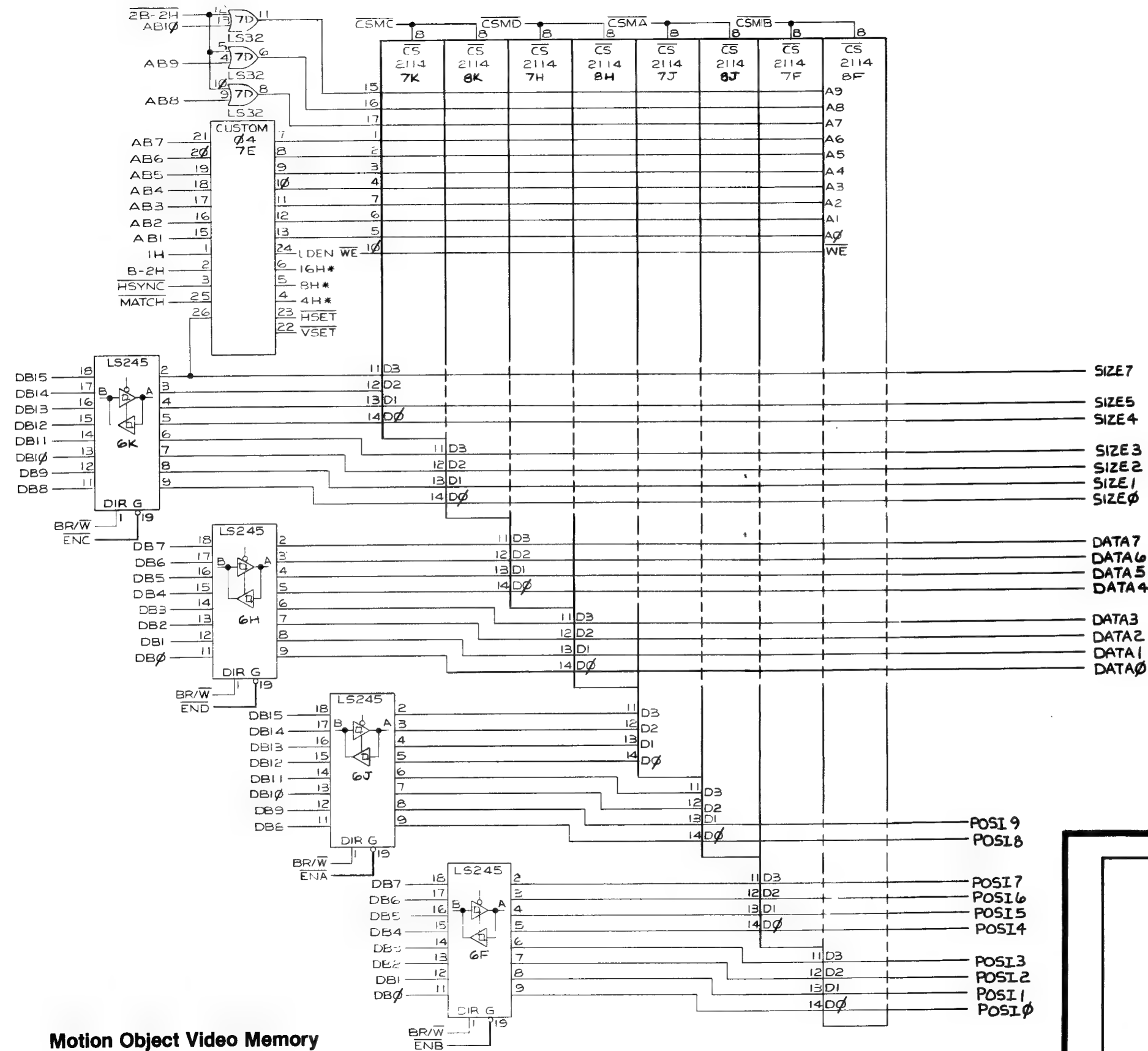


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Pole Position Video PCB Schematic Diagram

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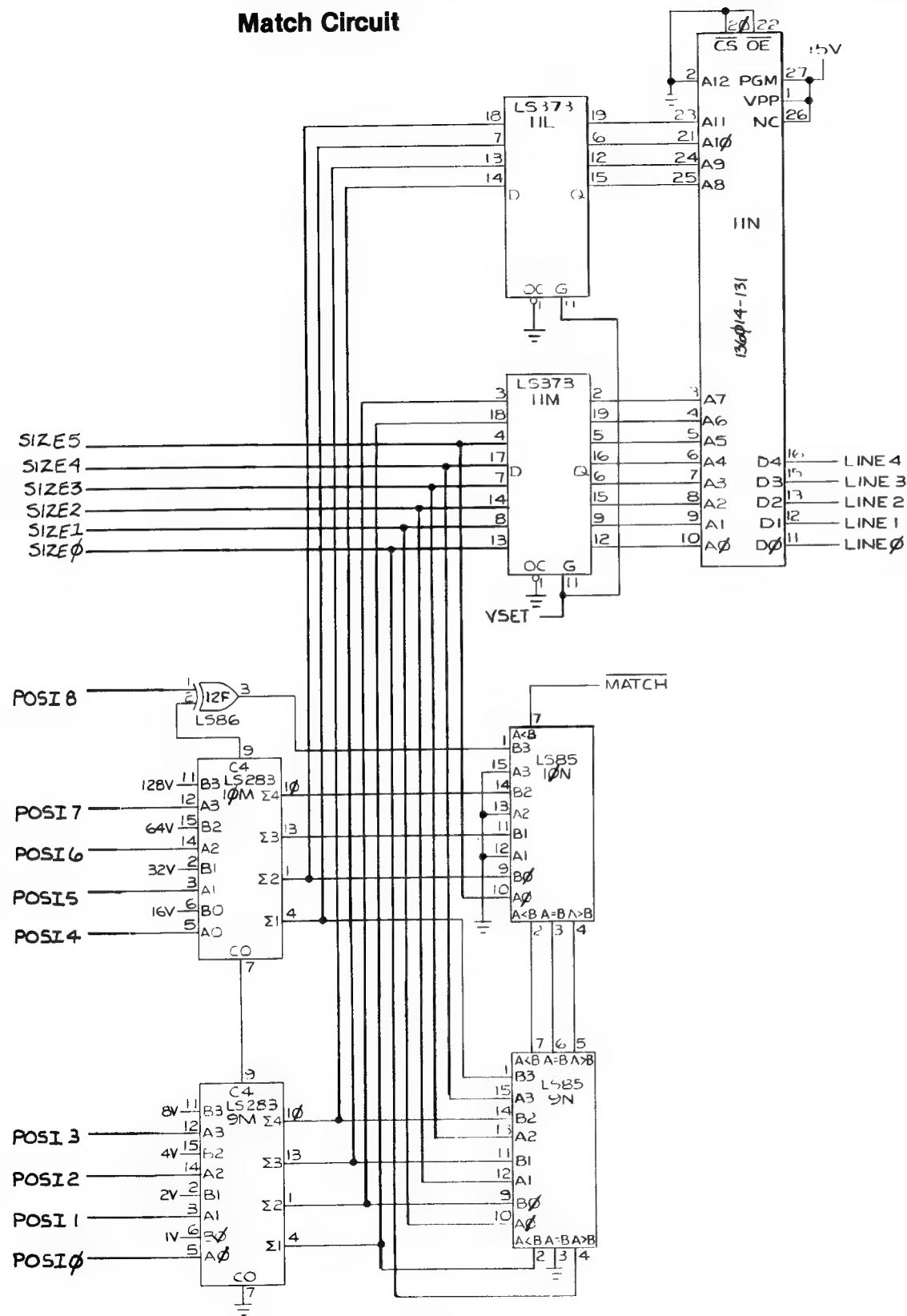
Motion Object Video Memory



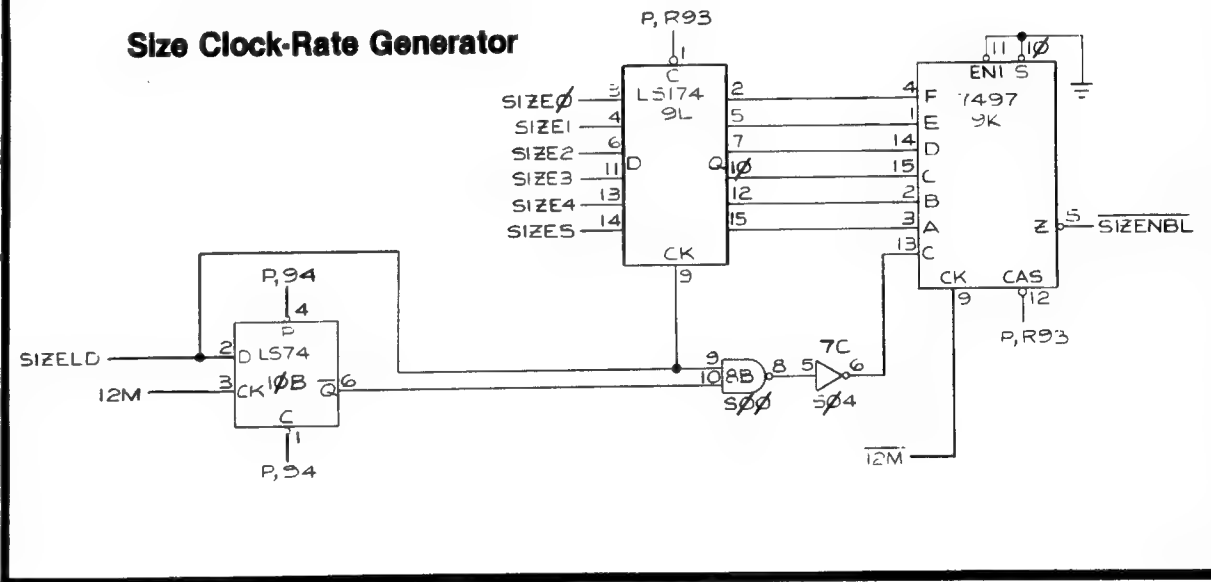
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Pole Position Video PCB Schematic Diagram

Match Circuit

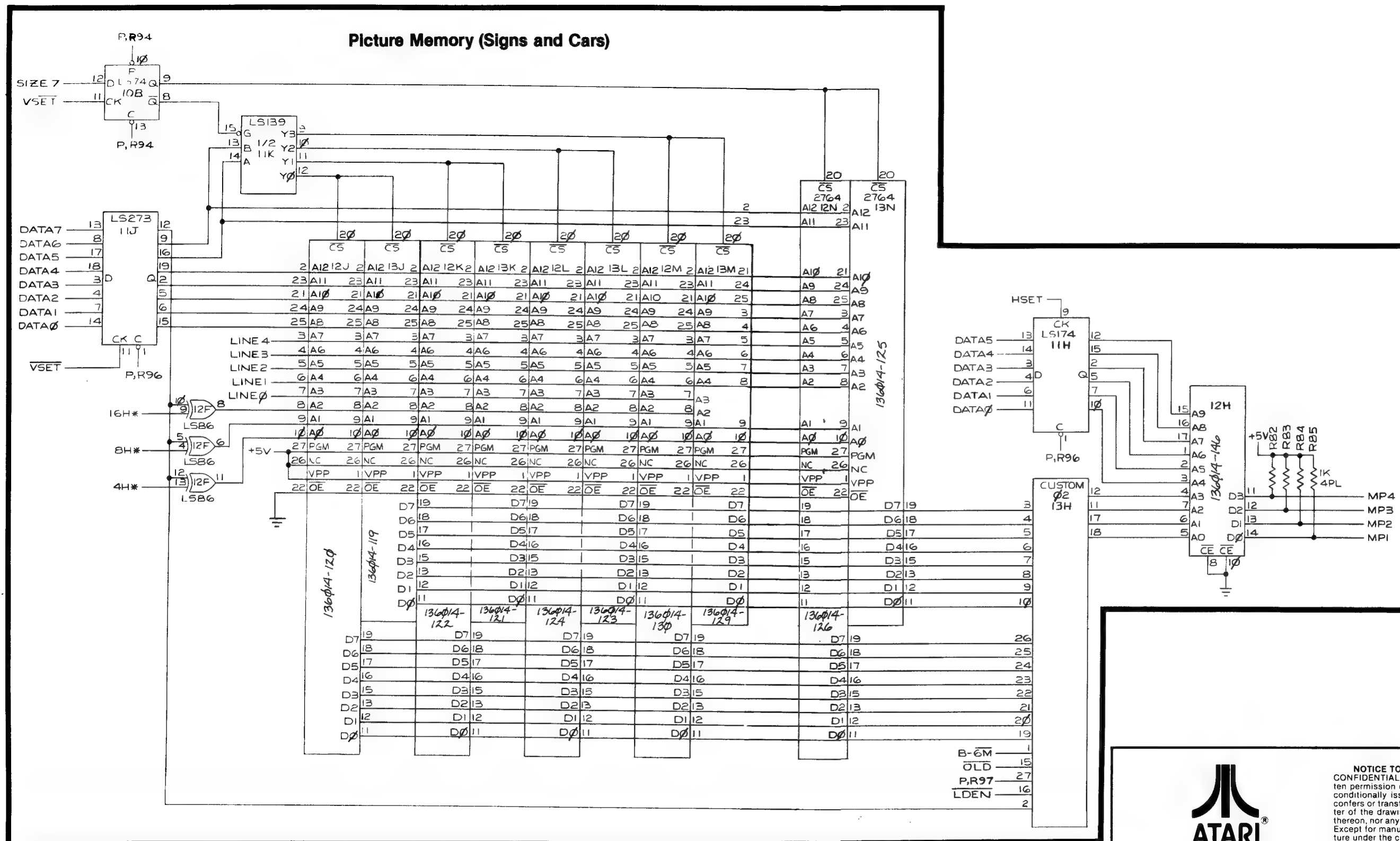


Size Clock-Rate Generator



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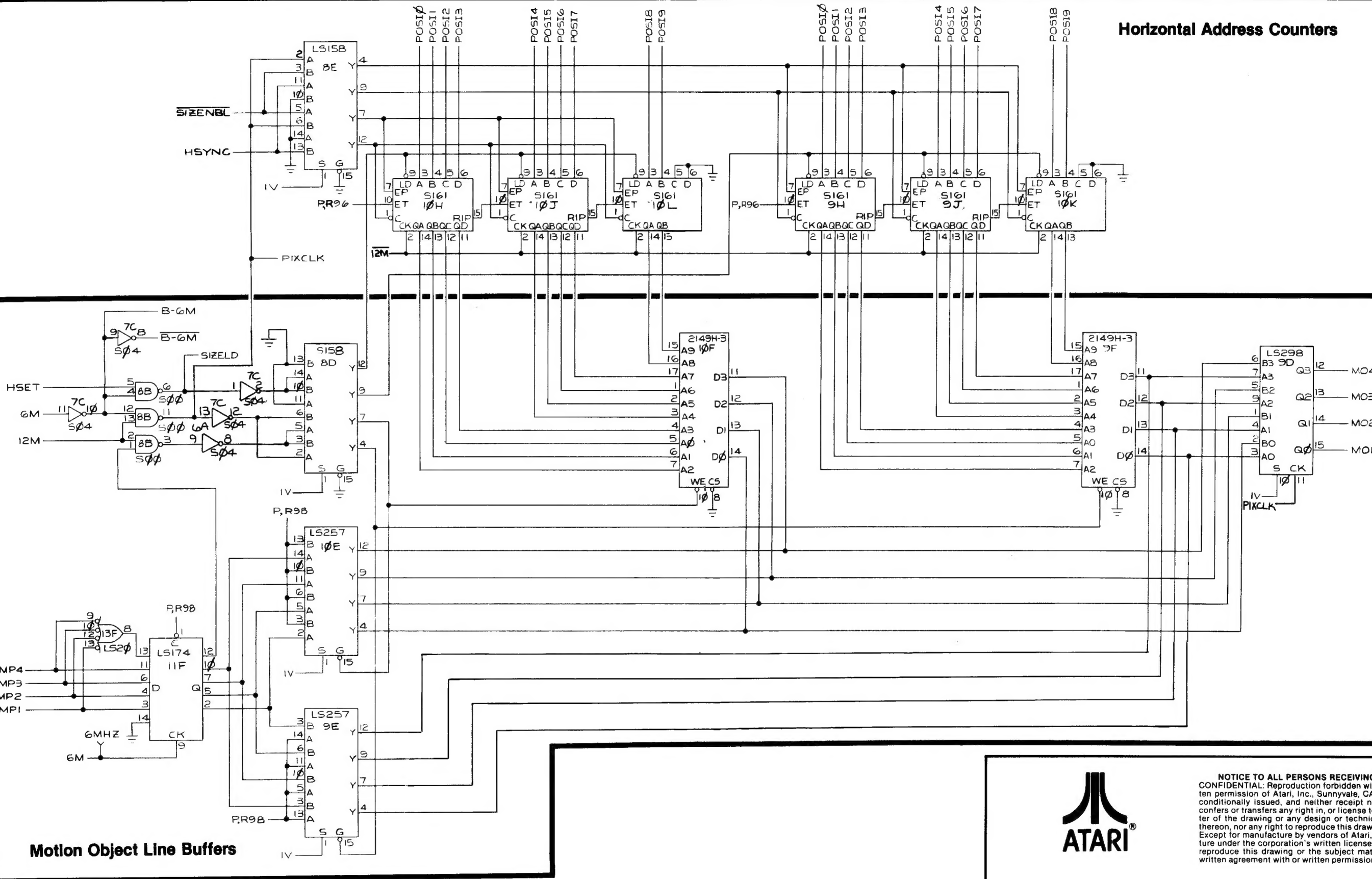
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Horizontal Address Counters

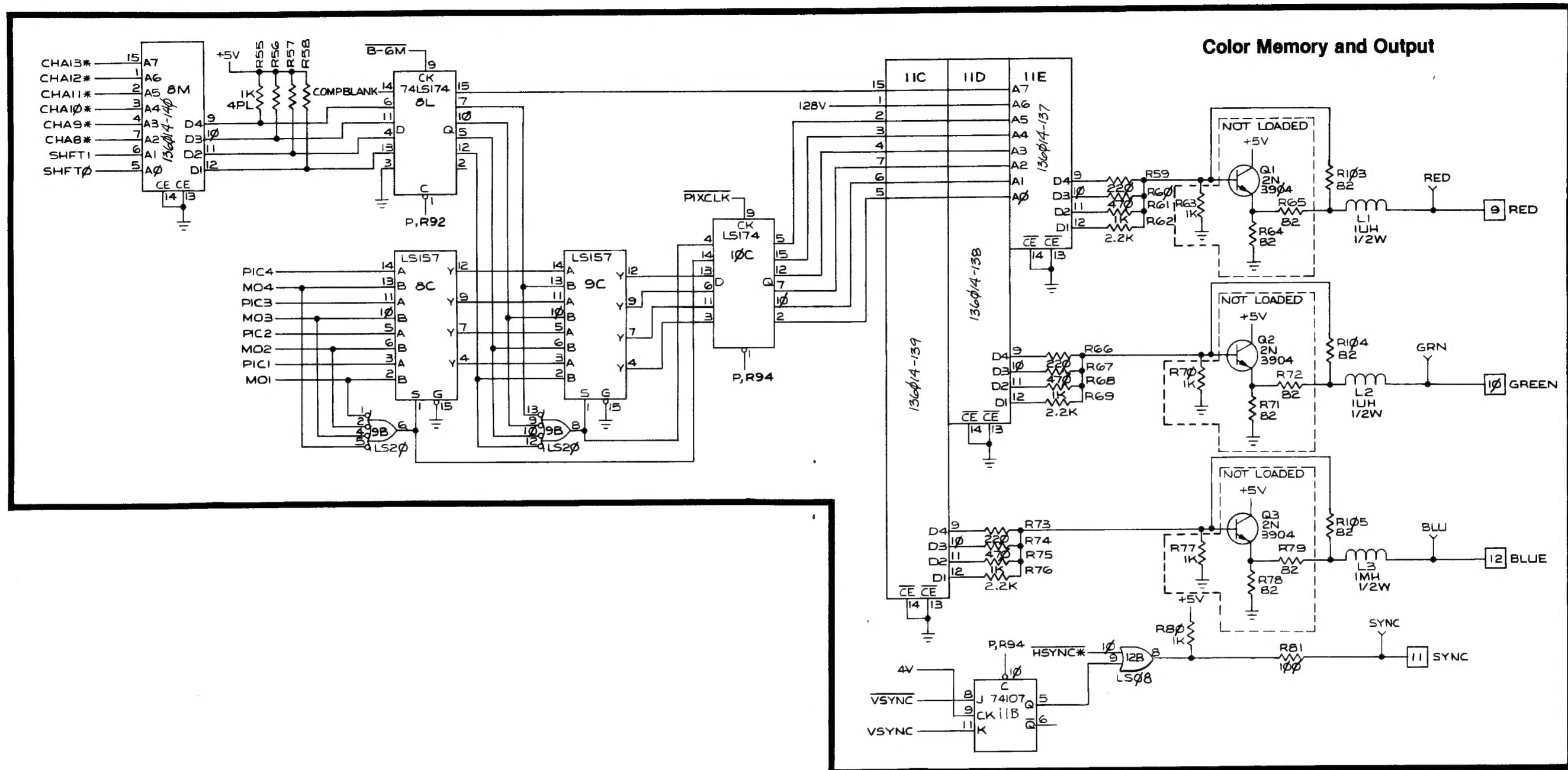


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Pole Position Video PCB Schematic Diagram

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Electrohome 19-Inch Color Raster-Scan Video Display Schematic Diagram

Schematic Notes

Unless otherwise specified

Resistance: (Ω) (K \rightarrow K Ω , M \rightarrow M Ω), 1/4 (W) carbon resistor

Capacitance: 1 or higher \rightarrow (pF), less than 1 \rightarrow (μ F)

working voltage \rightarrow 50 (V)

ceramic capacitor

Inductance: (μ H)

Electrolytic Cap: Capacitance Value (μ F)/working voltage (V).

NP \rightarrow non-polar (or bipolar) electrolytic cap.

Refer to the parts list for additional component information.

\odot indicates test point connection

\perp indicates chassis ground unless otherwise specified

Hz indicates cycles per second

For safety purposes (and continuing reliability)

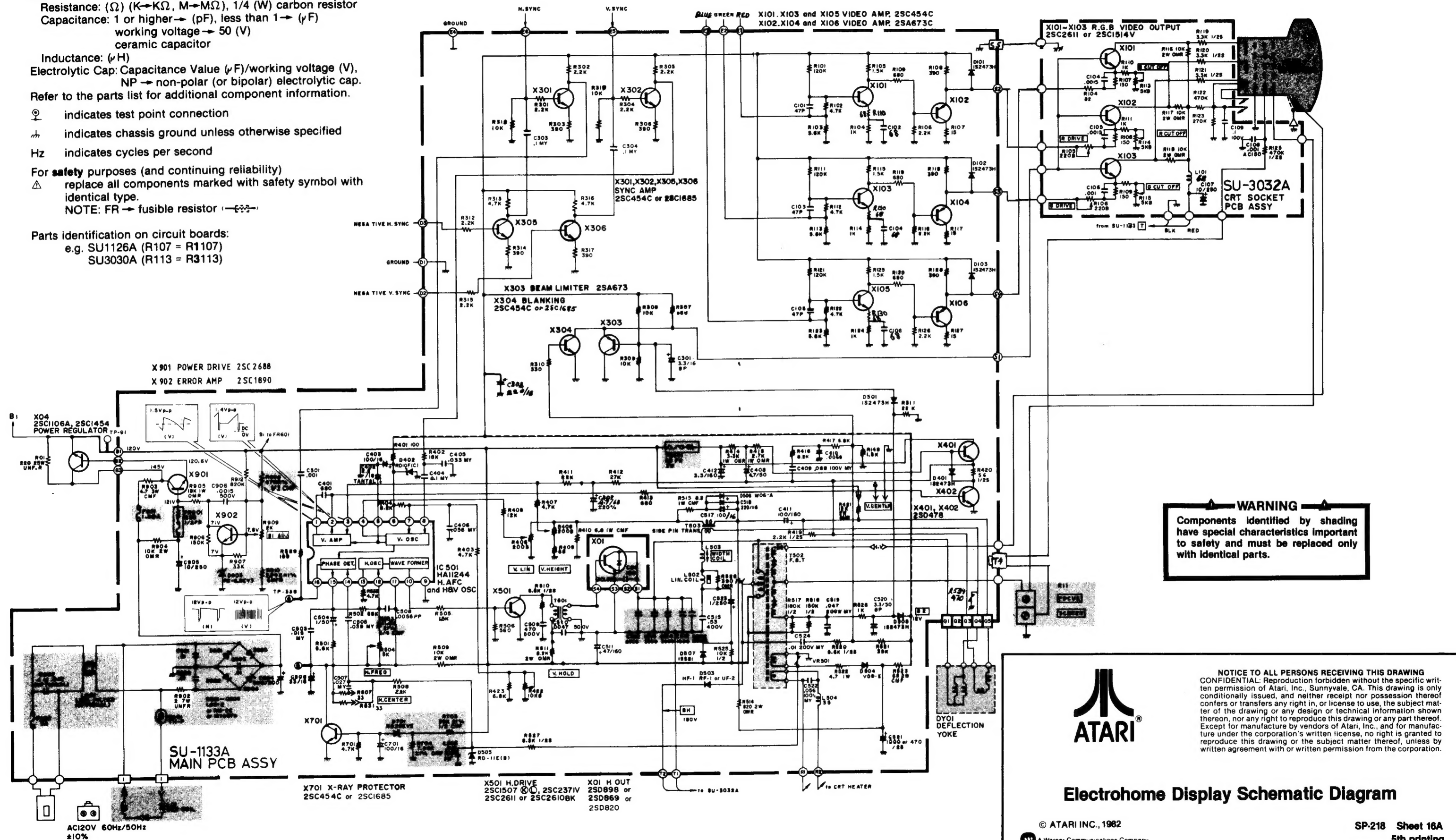
\triangle replace all components marked with safety symbol with identical type.

NOTE: FR \rightarrow fusible resistor ($\text{---}\text{FR}\text{---}$)

Parts identification on circuit boards:

e.g. SU1126A (R107 = R1107)

SU3030A (R113 = R3113)



Electrohome Display Schematic Diagram

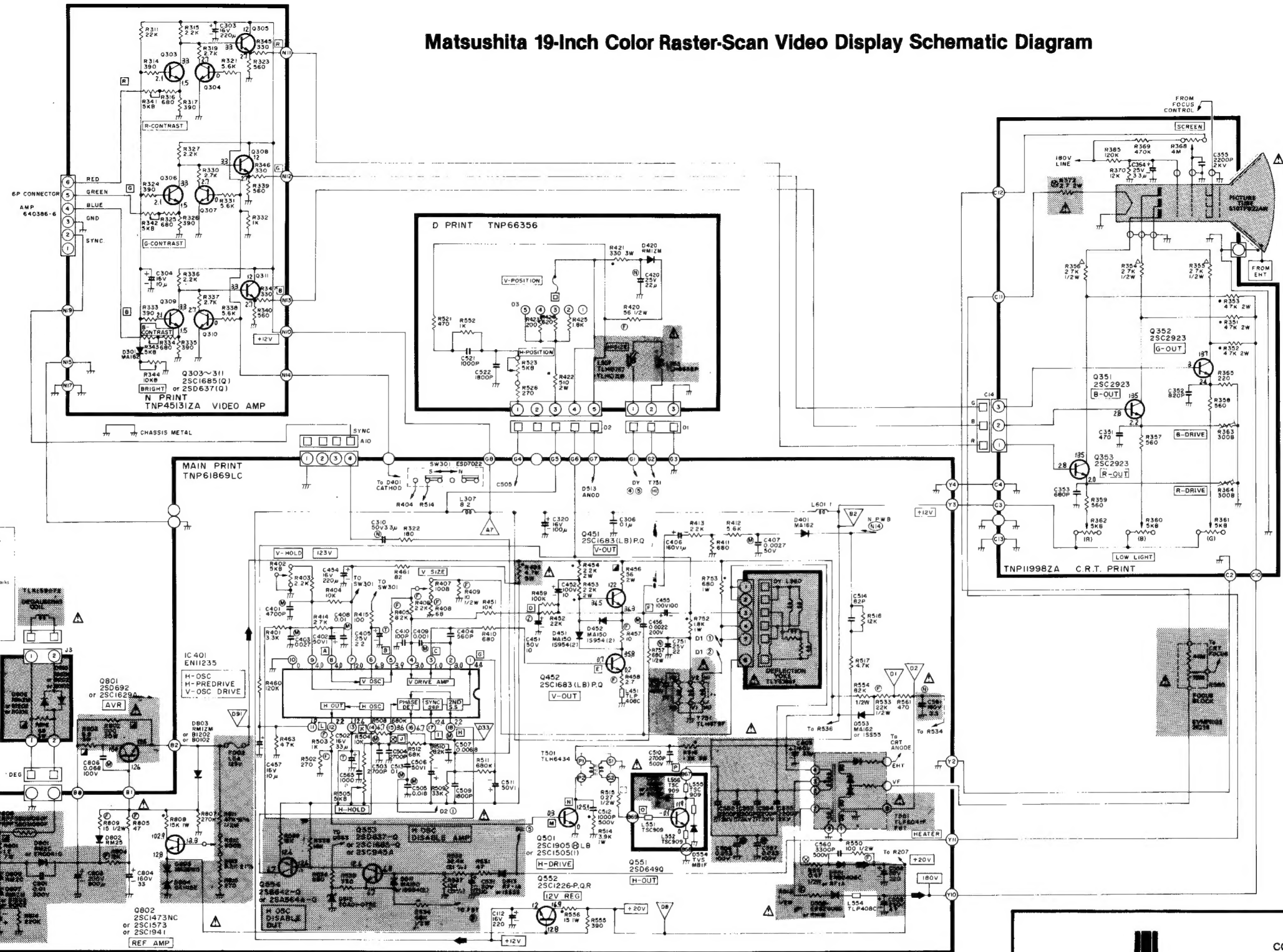
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Matsushita 19-Inch Color Raster-Scan Video Display Schematic Diagram



Components identified by shading have special characteristics important to safety and must be replaced only with identical parts.



Matsushita Display Schematic Diagram

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